

General Algebra 2
Lesson #3 Unit 3
Class Worksheet #3
For Worksheets #3 & #4

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.
$$\begin{aligned} 5x + 3y &= 29 \\ x - 3y &= -5 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

1.
$$5x + 3y = 29$$
$$x - 3y = -5$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.
$$5x + 3y = 29$$
$$x - 3y = -5$$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1. $5x + 3y = 29$
 $x + 3y = -5$



$5x + 3y = 29$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1. $5x + 3y = 29$
 $x + 3y = -5$



$5x + 3y = 29$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1. $5x + 3y = 29$
 $x - 3y = -5$

$5x + 3y = 29$
 $x - 3y = -5$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.
$$\begin{array}{l} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

$$\begin{array}{l} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.
$$\begin{array}{l} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

$$\begin{array}{l} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ \\ x = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \end{array}$$

(Note: A red bracket on the right side of the equations indicates a multiplier of -5 is applied to the bottom equation.)

$$\begin{array}{r} 5x + 3y = 29 \\ x - 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

(Note: Red arrows point from the top equation to the first two equations in the second set, and a blue arrow points from the bottom equation to the second equation in the second set.)

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$

(Diagram: A red bracket on the left groups the equations. A red arrow points from the top equation to the top equation of the second system. A blue arrow points from the bottom equation to the bottom equation of the second system. A blue arrow points from the bottom equation to the bottom equation of the second system, indicating multiplication by -5.)

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

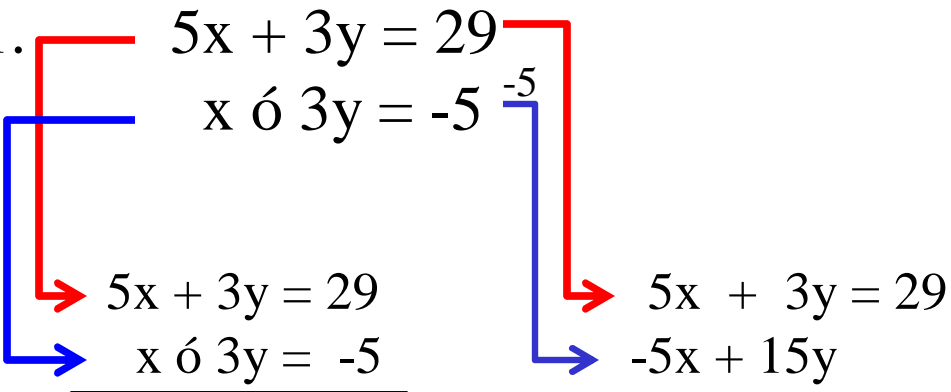
Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$

$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = -25 \end{array}$$

$$6x = 24$$
$$x = 4$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

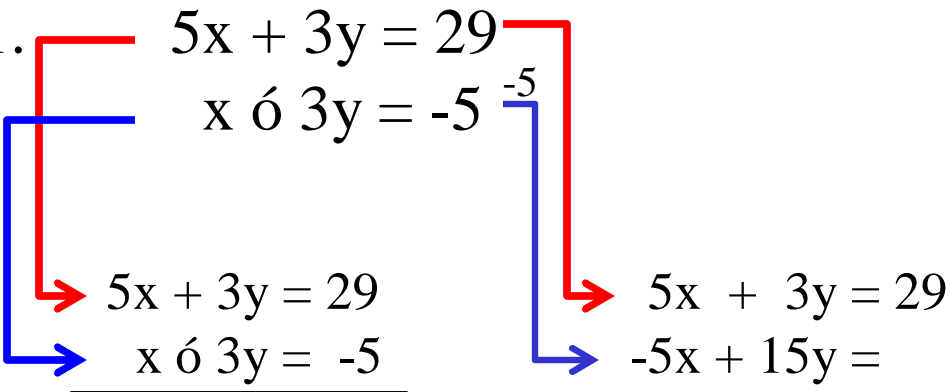
Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

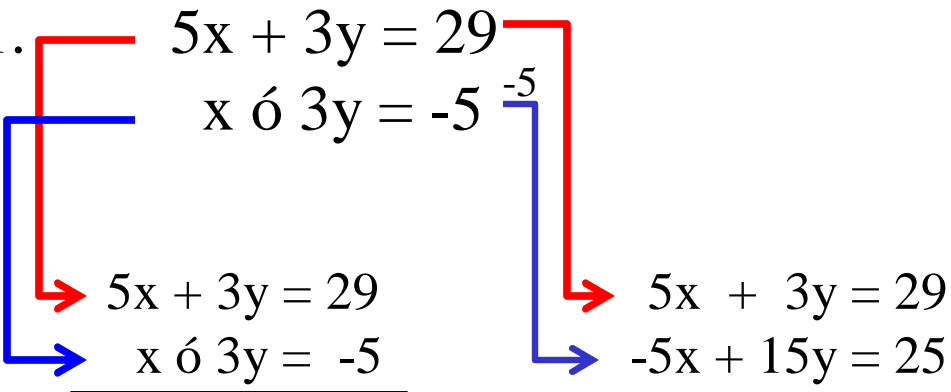
Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

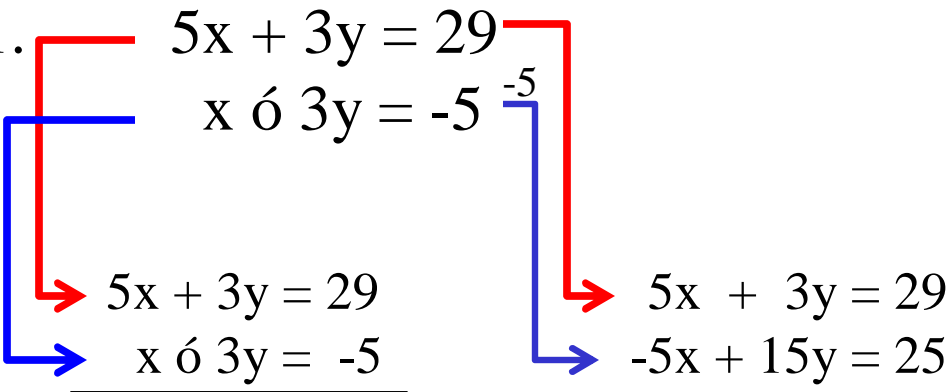
Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5 .

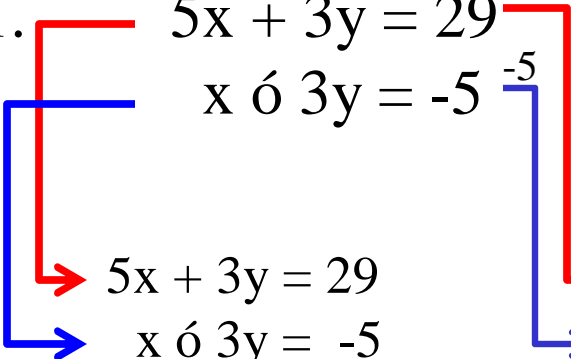
Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

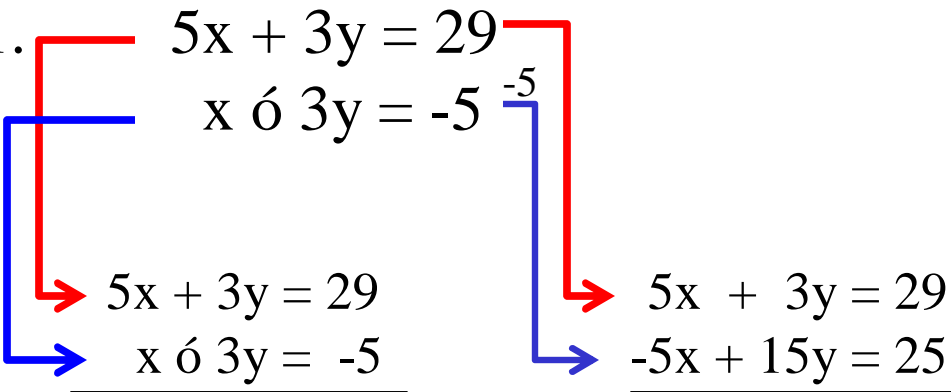
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5 .

Notice that the x terms are opposite.

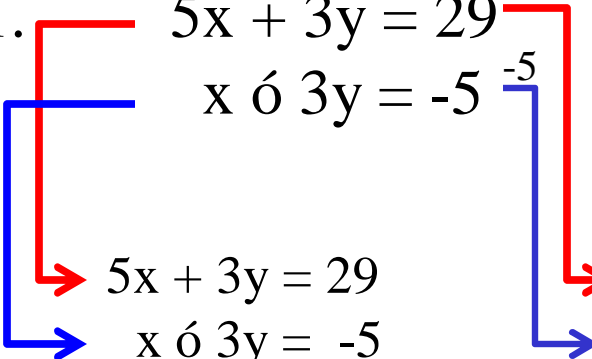
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

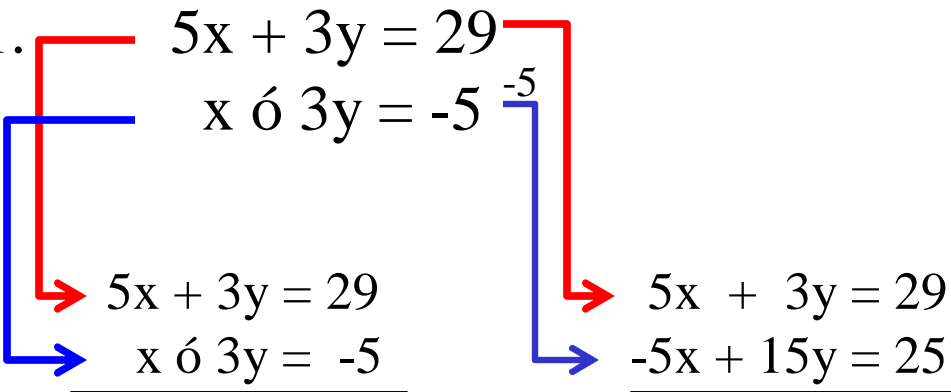
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$



$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = 54 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$

Diagram illustrating the multiplication-addition method:

- A red arrow points from the coefficient 3 in the top equation to the coefficient 3 in the bottom equation.
- A blue arrow points from the coefficient 3 in the bottom equation to the coefficient 3 in the top equation.
- A red arrow points from the coefficient -5 in the bottom equation to the coefficient 3 in the top equation.
- A blue arrow points from the coefficient -5 in the bottom equation to the coefficient 3 in the top equation.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = 54 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r}
 5x + 3y = 29 \\
 x + 3y = -5
 \end{array}$$

$$\begin{array}{r}
 5x + 3y = 29 \\
 x + 3y = -5
 \end{array}$$

$$\begin{array}{r}
 5x + 3y = 29 \\
 -5x + 15y = 25
 \end{array}$$

$$\begin{array}{r}
 6x = 24 \\
 x = 4
 \end{array}$$

$$\begin{array}{r}
 5x + 3y = 29 \\
 -5x + 15y = 25
 \end{array}$$

$$\begin{array}{r}
 18y = 54 \\
 y
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$

(Red arrows show the top equation being copied down. A blue arrow shows the bottom equation being multiplied by -5.)

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = 54 \\ y = \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

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Solve each of the following systems of equations using the **multiplication-addition method**.

1.

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \end{array}$$

(Red arrows show the top equation being copied down. A blue arrow shows the bottom equation being multiplied by -5.)

$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$
$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = 54 \\ y = 3 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

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$$\begin{array}{r} 5x + 3y = 29 \\ x + 3y = -5 \\ \hline 6x = 24 \\ x = 4 \end{array}$$

$$\begin{array}{r} 5x + 3y = 29 \\ -5x + 15y = 25 \\ \hline 18y = 54 \\ y = 3 \end{array}$$

$x = 4$
 $y = 3$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -5.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2.
$$\begin{aligned} 4x + 5y &= 10 \\ 2x - y &= 12 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2.
$$\begin{aligned} 4x + 5y &= 10 \\ 2x - y &= 12 \end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


2.
$$\begin{aligned} 4x + 5y &= 10 \\ 2x - y &= 12 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


2. 
$$\begin{aligned} 4x + 5y &= 10 \\ 2x - y &= 12 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


2. 
$$\begin{aligned} 4x + 5y &= 10 \\ 2x - y &= 12 \\ 4x + 5y &= 10 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2. 
$$\begin{array}{r} 4x + 5y = 10 \\ 2x - y = 12 \\ \hline 4x + 5y = 10 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2.
$$\begin{array}{l} 4x + 5y = 10 \\ 2x - y = 12 \end{array}$$

$$4x + 5y = 10$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2.

$$\begin{array}{l} 4x + 5y = 10 \\ 2x - y = 12 \end{array}$$

$4x + 5y = 10$
 $2x - y = 12$

$4x + 5y = 10$
 $10x - 5y = 60$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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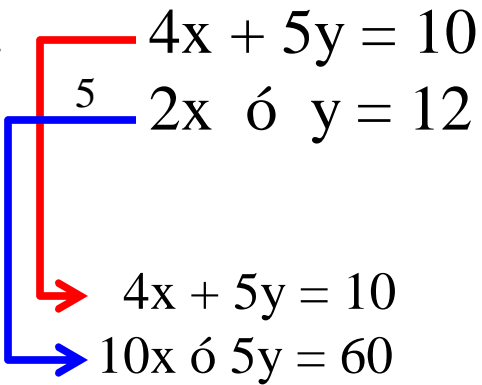
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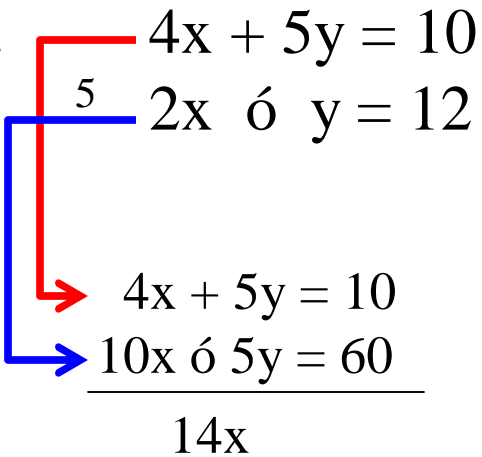
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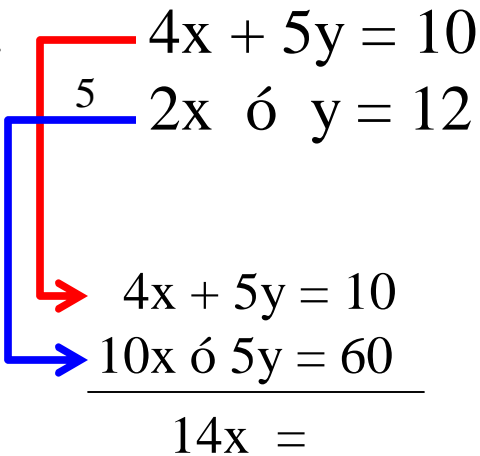
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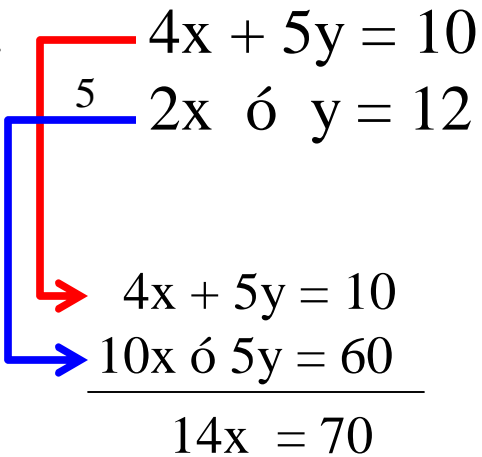
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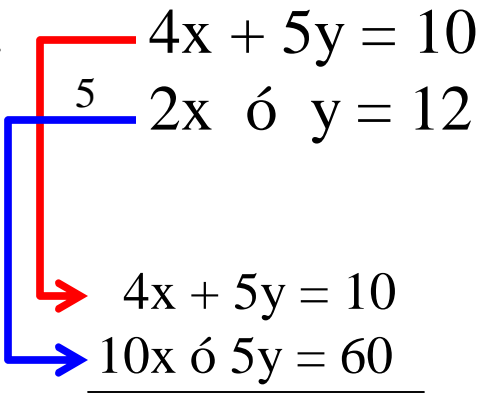
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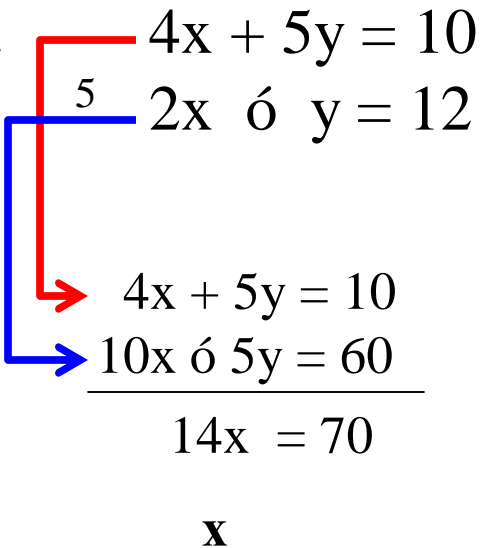
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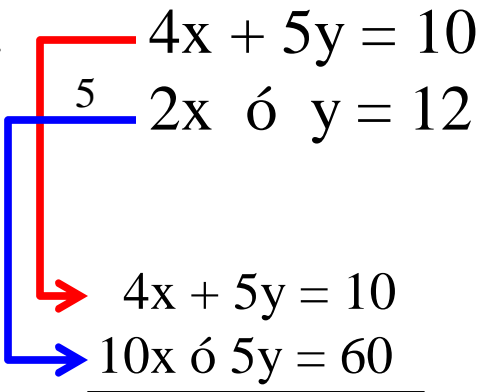
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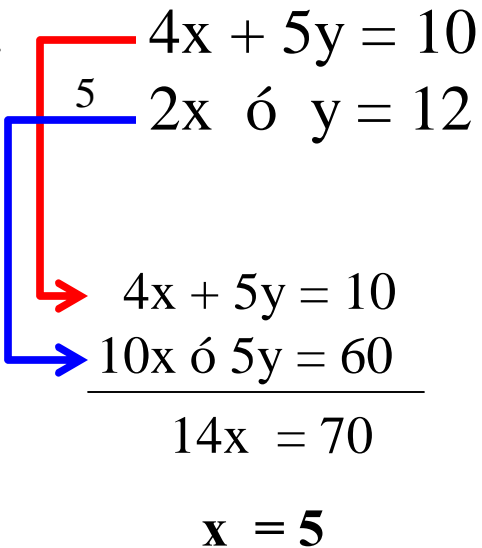
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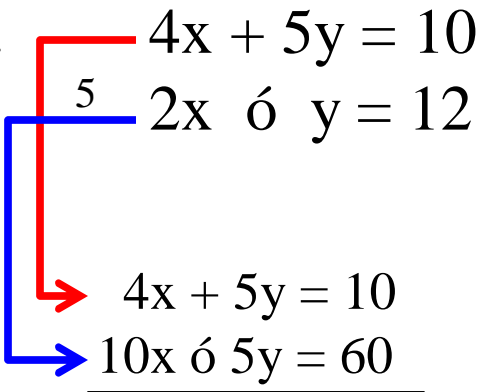
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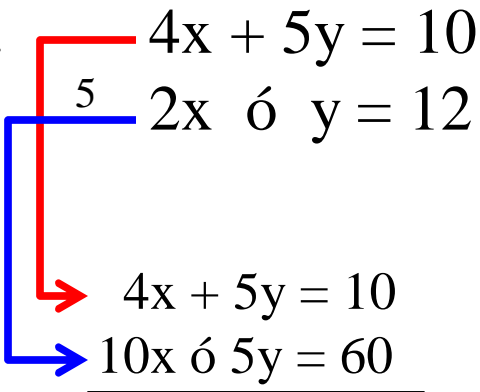
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To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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(A red bracket above the equations indicates the top equation is to be multiplied by 5. A red arrow points from the top equation to the resulting equation below. A blue arrow points from the bottom equation to the resulting equation below.)

$$\begin{array}{r} 4x + 5y = 10 \\ 10x - 5y = 60 \\ \hline 14x = 70 \\ \mathbf{x = 5} \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

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(A red bracket with the number 5 above it spans the two equations, with a red arrow pointing to the resulting equation below.)

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To solve for x, we must eliminate the y terms.

Bring down the top equation.

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Notice that the y terms are opposite.

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 \xrightarrow{5} \\
 \xrightarrow{-2}
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$$14x = 70$$

$$\mathbf{x = 5}$$

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-2

$$\begin{array}{r} 4x + 5y = 10 \\ -4x + 2y = -24 \end{array}$$

To solve for x , we must eliminate the y terms.

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Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

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Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

2.

$$\begin{array}{r}
 4x + 5y = 10 \\
 2x - y = 12
 \end{array}$$

$x = 5$
 $y = -2$

$$\begin{array}{r}
 4x + 5y = 10 \\
 10x - 5y = 60 \\
 \hline
 14x = 70 \\
 x = 5
 \end{array}$$

$$\begin{array}{r}
 4x + 5y = 10 \\
 -4x + 2y = -24 \\
 \hline
 7y = -14 \\
 y = -2
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{aligned} 6x + 5y &= 13 \\ 3x + 2y &= -16 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

3.
$$\begin{aligned} 6x + 5y &= 13 \\ 3x - 2y &= -16 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


3.
$$\begin{aligned} 6x + 5y &= 13 \\ 3x - 2y &= -16 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

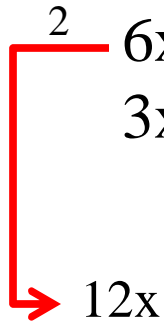
3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$

 $12x$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x - 2y = -16 \end{array}$$


 $12x +$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$


$$12x + 10y$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$


$$12x + 10y =$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$


$$12x + 10y = 26$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$


$$12x + 10y = 26$$

To solve for x , we must eliminate the y terms.

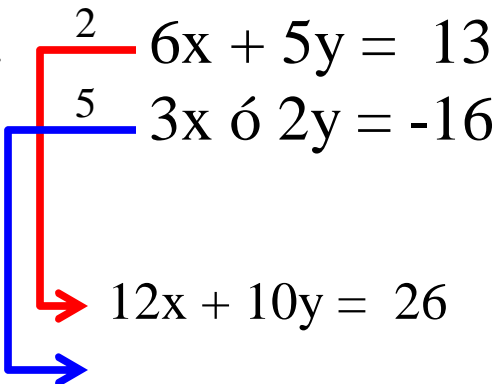
Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 2 \cdot (6x + 5y = 13) \\ 5 \cdot (3x - 2y = -16) \\ \hline 12x + 10y = 26 \end{array}$$



To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 2 \cdot (6x + 5y = 13) \\ 5 \cdot (3x - 2y = -16) \\ \hline 12x + 10y = 26 \\ 15x - 10y = -80 \\ \hline 3x = -54 \\ x = -18 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \\ \hline \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x - 10y = -80 \\ \hline 27x = -54 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \\ \hline \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x - 10y = -80 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red} 6x + 5y = 13 \\ \overset{5}{\color{blue}\rule{1.5cm}{0.4pt}} \color{blue} 3x - 2y = -16 \\ \color{red}\rule{1.5cm}{0.4pt} \rightarrow 12x + 10y = 26 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 15x - 10y = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.
$$\begin{array}{l} 2 \cdot (6x + 5y = 13) \\ 5 \cdot (3x - 2y = -16) \\ \hline 12x + 10y = 26 \\ 15x - 10y = -80 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \\ \hline 12x + 10y = 26 \\ 15x - 10y = -80 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \\ \hline 12x + 10y = 26 \\ 15x - 10y = -80 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \\ \hline 12x + 10y = 26 \\ 15x - 10y = -80 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

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Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x - 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x - 10y = -80 \end{array} \\ \hline 27x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x + 10y = -80 \end{array} \\ \hline 27x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \end{array}$$

$$x =$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

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Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 3. \quad \begin{array}{l} \xrightarrow{2} 6x + 5y = 13 \\ \xrightarrow{5} 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{2} 12x + 10y = 26 \\ \xrightarrow{5} 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} 2 \\ 5 \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x - 2y = -16 \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x - 10y = -80 \\ \hline 27x = 54 \\ x = 2 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 2 \\ 5 \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ x = 2 \end{array}$$
$$6x + 5y = 13$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$6x + 5y = 13$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \\ -6x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \\ -6x + \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \\ -6x + 4y \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \\ -6x + 4y = \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} 2 \\ 5 \\ 3x + 2y = -16 \end{array} \quad \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$

$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ x = 2 \end{array}$$

$$\begin{array}{r} -2 \\ 6x + 5y = 13 \\ -6x + 4y = 32 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 12x + 10y = 26 \\ 15x + 10y = -80 \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} 6x + 5y = 13 \\ -6x + 4y = 32 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} 2 \\ 5 \\ \hline 6x + 5y = 13 \\ 3x + 2y = -16 \end{array}$$

$\xrightarrow{2}$ $12x + 10y = 26$

$\xrightarrow{5}$ $15x + 10y = -80$

$$27x = 54$$

$x = 2$

$\xrightarrow{-2}$ $6x + 5y = 13$

$\xrightarrow{-2}$ $-6x + 4y = 32$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \end{array}$$
$$\begin{array}{r} \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{5} \end{array} \begin{array}{l} 12x + 10y = 26 \\ 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-2} \end{array} \begin{array}{l} 6x + 5y = 13 \\ -6x + 4y = 32 \end{array} \\ \hline \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} \begin{array}{l} 2 \\ 5 \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \hline \begin{array}{l} 12x + 10y = 26 \\ 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} \begin{array}{l} 6x + 5y = 13 \\ -6x + 4y = 32 \end{array} \\ \hline 9y \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{2} 6x + 5y = 13 \\
 \xrightarrow{5} 3x + 2y = -16
 \end{array} \\
 \hline
 \begin{array}{l}
 \xrightarrow{2} 12x + 10y = 26 \\
 \xrightarrow{5} 15x + 10y = -80 \\
 \hline
 27x = 54 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-2} 6x + 5y = 13 \\
 \xrightarrow{-2} -6x + 4y = 32
 \end{array} \\
 \hline
 9y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite. Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

$$\begin{array}{r} \begin{array}{l} 2 \\ 5 \end{array} \begin{array}{l} 6x + 5y = 13 \\ 3x + 2y = -16 \end{array} \\ \hline \begin{array}{l} 12x + 10y = 26 \\ 15x + 10y = -80 \end{array} \\ \hline 27x = 54 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} \begin{array}{l} 6x + 5y = 13 \\ -6x + 4y = 32 \end{array} \\ \hline 9y = 45 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

3.

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 \begin{array}{l}
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 \end{array}
 \end{array}$$

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 \begin{array}{l}
 \xrightarrow{-2} 6x + 5y = 13 \\
 \xrightarrow{-2} -6x + 4y = 32
 \end{array} \\
 \hline
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 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite. Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-2} 6x + 5y = 13 \\
 \xrightarrow{-2} -6x + 4y = 32
 \end{array} \\
 \hline
 \begin{array}{l}
 9y = 45 \\
 \mathbf{y}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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 3. \quad \begin{array}{l}
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 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-2} 6x + 5y = 13 \\
 \xrightarrow{-2} -6x + 4y = 32 \\
 \hline
 9y = 45 \\
 \mathbf{y = 5}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

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General Algebra 2 CWS #3 Unit 3 Solutions

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 \hline
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Multiply both sides of the top equation by 2.

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Multiply both sides of the bottom equation by -2.

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 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-2} 6x + 5y = 13 \\
 \xrightarrow{-2} -6x + 4y = 32
 \end{array} \\
 \hline
 \begin{array}{l}
 9y = 45 \\
 \mathbf{y = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{x = 2} \\
 \mathbf{y = 5}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 5.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite. Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{aligned} 4x + y &= 3 \\ 3x - 2y &= 16 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{aligned} 4x + y &= 3 \\ 3x - 2y &= 16 \end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


4.
$$\begin{aligned} 4x + y &= 3 \\ 3x - 2y &= 16 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

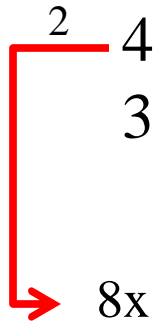
4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

 $8x$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$$8x +$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$


$$8x + 2y$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x + 2y = 16 \end{array}$$


$$8x + 2y =$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x + 2y = 16 \end{array}$$


$$8x + 2y = 6$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x + 2y = 16 \end{array}$$


$$8x + 2y = 6$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$$8x + 2y = 6$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$$\begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$$\begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.
$$\begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$$\begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

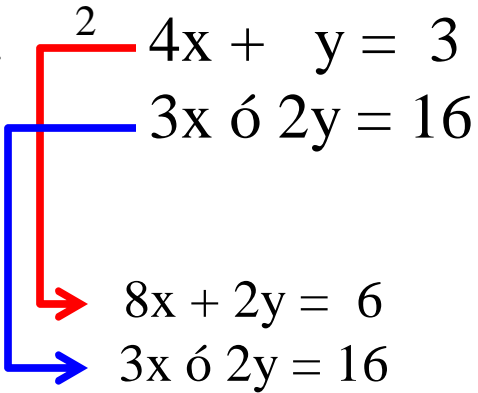
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$



$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

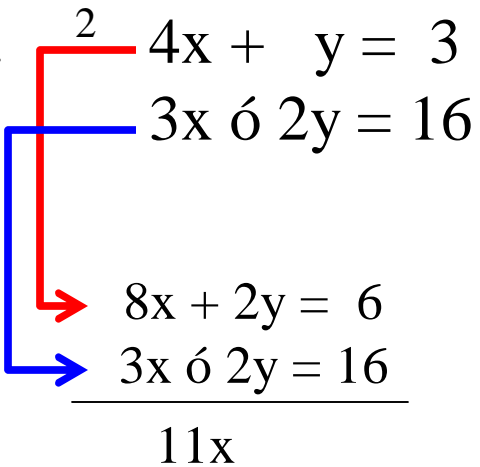
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$



$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \\ 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$
$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$
$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \\ 4x + y = 3 \\ 3x - 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \\ 4x + y = 3 \\ 3x - 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \\ 4x + y = 3 \\ 3x - 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} 2 \\ 4x + y = 3 \\ 3x - 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ x = 2 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 4. \quad \begin{array}{l} \overset{2}{\color{red}} 4x + y = 3 \\ 3x - 2y = 16 \end{array} \\ \color{red} \downarrow \color{blue} \downarrow \\ \begin{array}{l} \color{red} 8x + 2y = 6 \\ \color{blue} 3x - 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 4. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red} 4x + y = 3 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue} 3x - 2y = 16 \end{array} \\ \color{red}\rule{1.5cm}{0.4pt} \color{red} 8x + 2y = 6 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue} 3x - 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

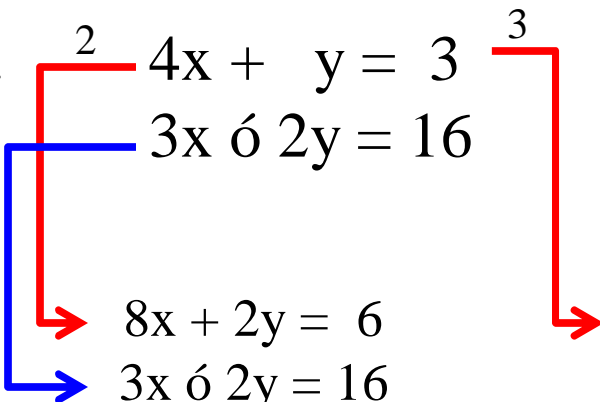
Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \quad 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$



$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \quad 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$

$\xrightarrow{2}$ $8x + 2y = 6$

$\xrightarrow{3}$ $12x$

$$\begin{array}{r} 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\downarrow \color{red}\rightarrow \\ 4x + y = 3 \\ \color{blue}\downarrow \color{blue}\rightarrow \\ 3x - 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x - 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

$\overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\downarrow \color{red}\rightarrow 12x +$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array} \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array} \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

$\overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 12x + 3y$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array} \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array} \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$

$\overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 12x + 3y =$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array} \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array} \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$
$$\overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 12x + 3y = 9$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \begin{array}{l} 4x + y = 3 \\ 3x - 2y = 16 \end{array} \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \begin{array}{l} 8x + 2y = 6 \\ 3x - 2y = 16 \end{array} \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$
$$\overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 12x + 3y = 9$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} 2 \quad 4x + y = 3 \\ 3x - 2y = 16 \end{array}$$
$$\begin{array}{r} 8x + 2y = 6 \\ 12x + 3y = 9 \end{array}$$

$$11x = 22$$
$$x = 2$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + y = 3 \\
 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 8x + 2y = 6 \\
 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 8x + 2y = 6 \\
 \color{blue}\rightarrow 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 12x + 3y = 9 \\
 \color{blue}\rightarrow -12x +
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 8x + 2y = 6 \\
 \color{blue}\rightarrow 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 12x + 3y = 9 \\
 \color{blue}\rightarrow -12x + 8y = 48
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 8x + 2y = 6 \\
 \color{blue}\rightarrow 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 12x + 3y = 9 \\
 \color{blue}\rightarrow -12x + 8y =
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad \color{red}\rightarrow \\ 4x + y = 3 \\ \color{blue}\rule{1.5cm}{0.4pt} \quad \color{blue}\rightarrow \\ 3x + 2y = 16 \\ \hline 8x + 2y = 6 \\ 3x + 2y = 16 \\ \hline 11x = 22 \\ \mathbf{x = 2} \end{array}$$
$$\begin{array}{r} \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad \color{red}\rightarrow \\ 12x + 3y = 9 \\ \color{blue}\rule{1.5cm}{0.4pt} \quad \color{blue}\rightarrow \\ -12x + 8y = -64 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 8x + 2y = 6 \\
 \color{blue}\rightarrow 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 12x + 3y = 9 \\
 \color{blue}\rightarrow -12x + 8y = -64
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \quad \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x + 2y = 16 \quad \color{blue}\rule{1.5cm}{0.4pt} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rule{1.5cm}{0.4pt} \rightarrow 8x + 2y = 6 \quad \color{red}\rule{1.5cm}{0.4pt} \rightarrow 12x + 3y = 9 \\
 \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 3x + 2y = 16 \quad \color{blue}\rule{1.5cm}{0.4pt} \rightarrow -12x + 8y = -64 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rightarrow \\
 4x + y = 3 \\
 \color{red}\rule{1.5cm}{0.4pt} \\
 \color{blue}\rightarrow \\
 3x + 2y = 16 \\
 \color{blue}\rule{1.5cm}{0.4pt} \\
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rightarrow \\
 12x + 3y = 9 \\
 \color{red}\rule{1.5cm}{0.4pt} \\
 \color{blue}\rightarrow \\
 -12x + 8y = -64 \\
 \color{blue}\rule{1.5cm}{0.4pt}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + y = 3 \\
 3x + 2y = 16
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 3 \quad 4x + y = 3 \\
 3x + 2y = 16
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \quad \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rule{1.5cm}{0.4pt} \quad \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16 \quad \color{red}\rule{1.5cm}{0.4pt} \quad \color{blue}\rule{1.5cm}{0.4pt} \quad \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rule{1.5cm}{0.4pt} \rightarrow 8x + 2y = 6 \\
 \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 4x + y = 3 \\
 \color{red}\rule{1.5cm}{0.4pt} \quad \color{blue}\rule{1.5cm}{0.4pt} \quad 3x - 2y = 16 \quad \color{red}\rule{1.5cm}{0.4pt} \quad \color{blue}\rule{1.5cm}{0.4pt} \quad \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \color{red}\rule{1.5cm}{0.4pt} \rightarrow 12x + 3y = 9 \\
 \color{blue}\rule{1.5cm}{0.4pt} \rightarrow -12x + 8y = -64 \\
 \hline
 11y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{r}
 \overset{2}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \begin{array}{l}
 4x + y = 3 \\
 3x + 2y = 16
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{r}
 \overset{3}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \begin{array}{l}
 3x + 2y = 16 \\
 3x + 2y = 16
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \qquad
 \begin{array}{r}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + y = 3 \\
 3x - 2y = 16
 \end{array} \\
 \hline
 \begin{array}{l}
 8x + 2y = 6 \\
 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 x = 2
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 3 \quad 4x + y = 3 \\
 -4 \quad 3x - 2y = 16
 \end{array} \\
 \hline
 \begin{array}{l}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{r}
 \overset{2}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \begin{array}{l}
 4x + y = 3 \\
 3x + 2y = 16
 \end{array}
 \begin{array}{r}
 \overset{3}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \qquad
 \begin{array}{r}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55 \\
 \mathbf{y}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 4x + y = 3 \\
 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 8x + 2y = 6 \\
 3x - 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 4x + y = 3 \\
 3x - 2y = 16
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55 \\
 \mathbf{y =}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{r}
 \overset{2}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \begin{array}{l}
 4x + y = 3 \\
 3x + 2y = 16
 \end{array}
 \begin{array}{r}
 \overset{3}{\color{red}\curvearrowright} \\
 \color{red}\curvearrowright \\
 \color{blue}\curvearrowright \\
 \color{blue}\curvearrowright
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 \mathbf{x = 2}
 \end{array}
 \qquad
 \begin{array}{r}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55 \\
 \mathbf{y = -5}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

4.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + y = 3 \\
 3x + 2y = 16
 \end{array} \\
 \hline
 \begin{array}{l}
 8x + 2y = 6 \\
 3x + 2y = 16 \\
 \hline
 11x = 22 \\
 x = 2
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 3 \quad 4x + y = 3 \\
 -4 \quad 3x + 2y = 16
 \end{array} \\
 \hline
 \begin{array}{l}
 12x + 3y = 9 \\
 -12x + 8y = -64 \\
 \hline
 11y = -55 \\
 y = -5
 \end{array}
 \end{array}$$

$$\begin{array}{l}
 x = 2 \\
 y = -5
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{aligned} 3x + 5y &= 12 \\ 2x + 3y &= 7 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

5.
$$3x + 5y = 12$$
$$2x + 3y = 7$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$3x + 5y = 12$$
$$2x + 3y = 7$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$


$$9x$$

To solve for x , we must eliminate the y terms.


Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$9x +$$



To solve for x , we must eliminate the y terms.


Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$9x + 15y$$



To solve for x , we must eliminate the y terms.


Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$9x + 15y =$$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \\ \hline 9x + 15y = 36 \end{array}$$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \\ \hline 9x + 15y = 36 \end{array}$$



To solve for x , we must eliminate the y terms.

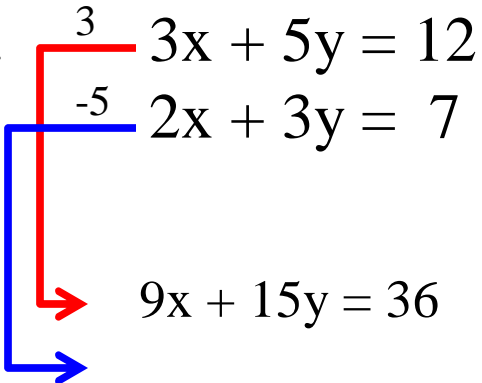
Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$9x + 15y = 36$$


To solve for x , we must eliminate the y terms.

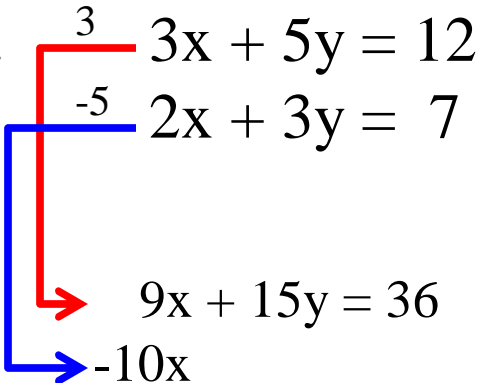
Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.

$$\begin{array}{r} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \\ \hline \xrightarrow{9} 9x + 15y = 36 \\ \xrightarrow{-10} -10x \quad \end{array}$$

To solve for x , we must eliminate the y terms.

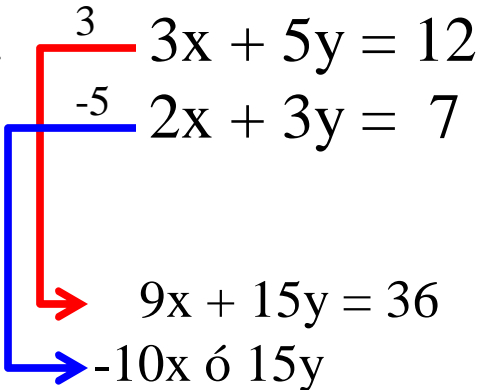
Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = \end{array}$$


To solve for x , we must eliminate the y terms.

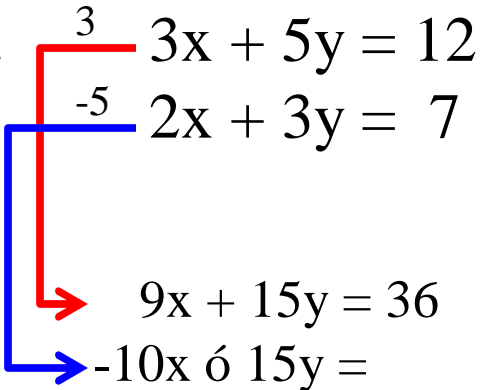
Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = -35 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = -35 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = -35 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.
$$\begin{array}{r} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array}$$

$$\begin{array}{r} 9x + 15y = 36 \\ \underline{-10x + 15y = -35} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{-5} \end{array} \begin{array}{l} 3x + 5y = 12 \\ 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9} \\ \xrightarrow{-10} \end{array} \begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = -35 \end{array} \\ \hline -1x \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \end{array} \\ \hline -1x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \\ \hline -1x = 1 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \\ \hline -1x = 1 \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \\ \hline \xrightarrow{9} 9x + 15y = 36 \\ \xrightarrow{-10} -10x + 15y = -35 \\ \hline -1x = 1 \end{array} \end{array}$$

x

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \\ \hline \xrightarrow{9} 9x + 15y = 36 \\ \xrightarrow{-10} -10x + 15y = -35 \\ \hline -1x = 1 \\ \\ \mathbf{x} = \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \end{array} \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \end{array} \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 15y = 36} \\ \xrightarrow{-10x + 15y = -35} \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 5. \quad \begin{array}{l} \overset{3}{\color{red}\rightarrow} 3x + 5y = 12 \\ \overset{-5}{\color{red}\rightarrow} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \color{blue}\rightarrow 9x + 15y = 36 \\ \color{blue}\rightarrow -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}$$

$\xrightarrow{2} 6x$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{2} \\
 6x + 10y = 24
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\ \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{-3} \end{array} \end{array}$$
$$\begin{array}{r} 9x + 15y = 36 \\ -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}$$
$$6x + 10y = 24$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{-3} \end{array} \\
 \begin{array}{l} 9x + 15y = 36 \\ -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array} \\
 \begin{array}{l} 6x + 10y = 24 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{2} \\ \xrightarrow{-3} \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array} \qquad \begin{array}{l} \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{2} 6x + 10y = 24 \\
 \xrightarrow{-3} -6x + 15y = -21 \\
 \hline 25y = 3 \\
 y = \frac{3}{25}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{2} 6x + 10y = 24 \\
 \xrightarrow{-3} -6x + 9y = -21
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{2} 6x + 10y = 24 \\
 \xrightarrow{-3} -6x + 9y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{2} 6x + 10y = 24 \\
 \xrightarrow{-3} -6x + 9y = -21
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x + 9y = -21
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{2} 2x + 3y = 7 \\ \xrightarrow{-3} 3x + 5y = 12 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x + 9y = -21 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{2} 2x + 3y = 7 \\ \xrightarrow{-3} 3x + 5y = 12 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x + 9y = -21 \\ \hline 19y = 3 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{2} 2x + 3y = 7 \\ \xrightarrow{-3} 3x + 5y = 12 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x + 9y = -21 \\ \hline \mathbf{y} \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l} \xrightarrow{3} 3x + 5y = 12 \\ \xrightarrow{-5} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 9x + 15y = 36 \\ \xrightarrow{-5} -10x + 15y = -35 \\ \hline -1x = 1 \\ \mathbf{x = -1} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{2} 3x + 5y = 12 \\ \xrightarrow{-3} 2x + 3y = 7 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 6x + 10y = 24 \\ \xrightarrow{-3} -6x + 9y = -21 \\ \hline y = \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 5. \quad \begin{array}{l}
 \overset{3}{\color{red}\rightarrow} 3x + 5y = 12 \\
 \overset{-5}{\color{red}\rightarrow} 2x + 3y = 7 \\
 \hline
 \color{red}9x + 15y = 36 \\
 \color{blue}-10x + 15y = -35 \\
 \hline
 -1x = 1 \\
 \mathbf{x = -1}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{2}{\color{red}\rightarrow} \\
 \overset{-3}{\color{red}\rightarrow} \\
 \hline
 \color{red}6x + 10y = 24 \\
 \color{blue}-6x + 9y = -21 \\
 \hline
 \mathbf{y = 3}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

5.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-5}
 \end{array}
 \begin{array}{l}
 3x + 5y = 12 \\
 2x + 3y = 7
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 \boxed{x = -1} \\
 \boxed{y = 3}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-5}
 \end{array}
 \begin{array}{l}
 9x + 15y = 36 \\
 -10x + 15y = -35
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 6x + 10y = 24 \\
 -6x + 9y = -21
 \end{array}$$

$$\begin{array}{r}
 \hline
 -1x = 1 \\
 \hline
 \mathbf{x = -1}
 \end{array}
 \qquad
 \begin{array}{r}
 \hline
 y = 3 \\
 \hline
 \mathbf{y = 3}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.
$$\begin{aligned}x + 4y &= -5 \\3x + 2y &= 15\end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.
$$\begin{aligned}x + 4y &= -5 \\3x + 2y &= 15\end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


6.
$$\begin{aligned}x + 4y &= -5 \\3x + 2y &= 15\end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


6. 
$$\begin{aligned}x + 4y &= -5 \\3x + 2y &= 15\end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6. 
$$\begin{array}{l} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$


$$x + 4y = -5$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6. 
$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \\ x + 4y = -5 \end{array}$$

To solve for x , we must eliminate the y terms.

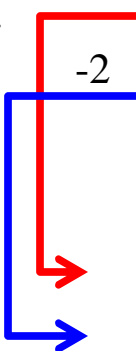
Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6. $x + 4y = -5$
 $3x + 2y = 15$
 $x + 4y = -5$



To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2(3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x = -30 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x - 4y = -30 \\ \hline -5x = -35 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} \xrightarrow{-2} \\ \begin{array}{l} x + 4y = -5 \\ 3x + 2y = 15 \end{array} \\ \xrightarrow{-2} \\ \begin{array}{l} x + 4y = -5 \\ -6x + 4y \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{l} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{l} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{\text{red}} x + 4y = -5 \\ \xrightarrow{\text{blue}} 3x + 2y = 15 \end{array} \\ \begin{array}{l} \xrightarrow{\text{red}} x + 4y = -5 \\ \xrightarrow{\text{blue}} -6x + 4y = -30 \end{array} \\ \hline -5x = -35 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

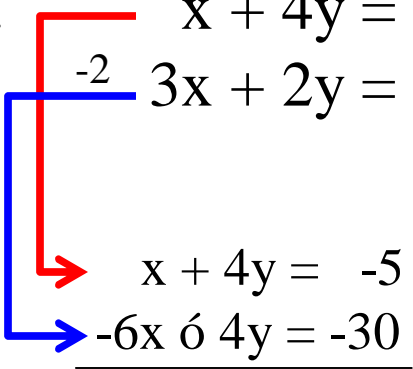
Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 x + 2y = 15 \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \end{array}$$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

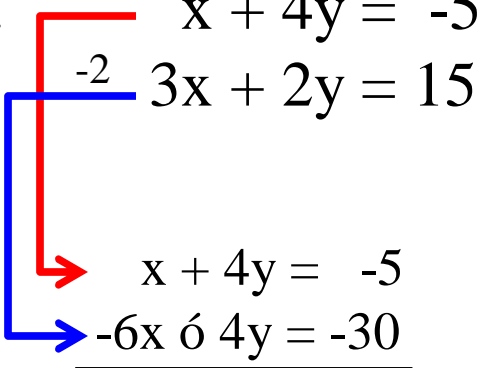
Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

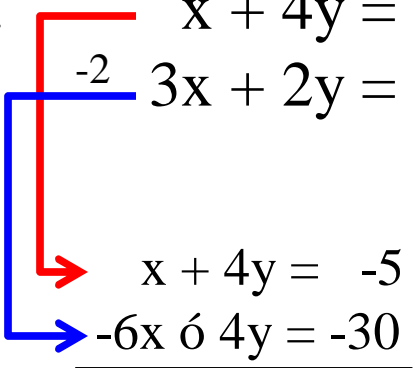
Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ -2 \cdot (3x + 2y = 15) \\ \hline x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the equations spans from the coefficient 1 of x in the first equation to the coefficient 3 of x in the second equation. A red arrow labeled '-3' points from the top of this bracket down to the coefficient 1 of x in the second equation. A blue bracket below the equations spans from the coefficient 3 of x in the first equation to the coefficient 2 of x in the second equation. A blue arrow labeled '-2' points from the top of this bracket down to the coefficient 2 of x in the second equation.)

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

-2

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

-3

$-3x$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the first equation is labeled -3, with an arrow pointing to -3x + 12y. A blue bracket above the second equation is labeled -2, with an arrow pointing to -6x + 8y = -30.)

$$\begin{array}{r} x + 4y = -5 \\ -6x + 8y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

-2

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

-3

$$\begin{array}{r} x + 4y = -5 \\ -3x + 12y = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket labeled '-2' connects the two equations. A red arrow labeled '-3' points from the top equation to the right. A blue arrow points from the bottom equation to the left.)

$$\begin{array}{r} x + 4y = -5 \\ -3x + 12y = 15 \\ \hline -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the equations spans from the first equation to the second, with a "-2" written above it. A red arrow points from the second equation to the right, leading to the equation $-3x + 12y = 15$. A blue bracket below the equations spans from the first equation to the second, with a "-3" written above it. A blue arrow points from the first equation to the right, leading to the equation $-6x + 12y = -30$.)

$$\begin{array}{r} x + 4y = -5 \\ -6x + 12y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the equations spans from the first equation to the second, with a '-2' written above it. A blue bracket below the equations spans from the second equation to the first, with a '-3' written above it. Red arrows point from the top equation to the bottom equation, and blue arrows point from the bottom equation to the top equation.)

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$
$$\begin{array}{r} -3x + 12y = 15 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the equations spans from the x-term of the first equation to the x-term of the second equation, with a red arrow pointing down to the second equation. A blue bracket below the equations spans from the x-term of the second equation to the x-term of the first equation, with a blue arrow pointing down to the first equation. The number -2 is written above the first equation, and -3 is written above the second equation.)

$$\begin{array}{r} x + 4y = -5 \\ -3x + 12y = 15 \\ \hline -2x + 16y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red bracket above the equations spans from the x-term of the first equation to the x-term of the second equation, with a '-3' above it. A blue bracket below the equations spans from the x-term of the second equation to the x-term of the first equation, with a '-2' above it. Red arrows point from the top equation to the modified equations below. Blue arrows point from the bottom equation to the modified equations below.)

$$\begin{array}{r} x + 4y = -5 \\ -3x + 12y = 15 \end{array}$$
$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \end{array}$$

$$-5x = -35$$
$$x = 7$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

Diagram illustrating the multiplication-addition method:

- A red arrow labeled -3 points from the top equation to $-3x + 12y = 15$.
- A blue arrow labeled -2 points from the bottom equation to $-6x + 4y = -30$.

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r} x + 4y = -5 \\ 3x + 2y = 15 \end{array}$$

(Diagram: A red arrow labeled '-2' points from the top equation to the bottom equation. A blue arrow labeled '-3' points from the bottom equation to the top equation.)

$$\begin{array}{r} x + 4y = -5 \\ -6x + 4y = -30 \\ \hline -5x = -35 \\ x = 7 \end{array}$$
$$\begin{array}{r} -3x + 12y = 15 \\ 3x + 2y = 15 \\ \hline \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y = 30
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y = 30
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$

$$\begin{array}{r}
 x + 4y = -5 \\
 -2(3x + 2y) = -2(15) \\
 \hline
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}
 \qquad
 \begin{array}{r}
 x + 4y = -5 \\
 -3(3x + 2y) = -3(15) \\
 \hline
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y = 30 \\
 y
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -3x + 12y = 15 \\
 \hline
 -5x + 16y = 10
 \end{array}$$

$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 8y = -30 \\
 \hline
 -5x + 12y = -35
 \end{array}$$

$x = 7$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 8y = -30 \\
 \hline
 -5x = -35 \\
 \mathbf{x = 7}
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y = 30 \\
 \mathbf{y = -3}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

6.

$$\begin{array}{r}
 x + 4y = -5 \\
 3x + 2y = 15
 \end{array}$$
$$\begin{array}{r}
 x + 4y = -5 \\
 -6x + 4y = -30 \\
 \hline
 -5x = -35 \\
 x = 7
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = 15 \\
 3x + 2y = 15 \\
 \hline
 -10y = 30 \\
 y = -3
 \end{array}$$

$$\begin{array}{l}
 x = 7 \\
 y = -3
 \end{array}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -2.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{aligned} 2x + y &= 12 \\ 3x + 4y &= 23 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

7.
$$\begin{aligned} 2x - y &= 12 \\ 3x - 4y &= 23 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{aligned} 2x + y &= 12 \\ 3x + 4y &= 23 \end{aligned}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x - y = 12 \\ 3x - 4y = 23 \end{array}$$



To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x + \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x + 4y \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x + 4y = \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array}$$


$$-8x + 4y = -48$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array}$$


$$-8x + 4y = -48$$

To solve for x , we must eliminate the y terms.

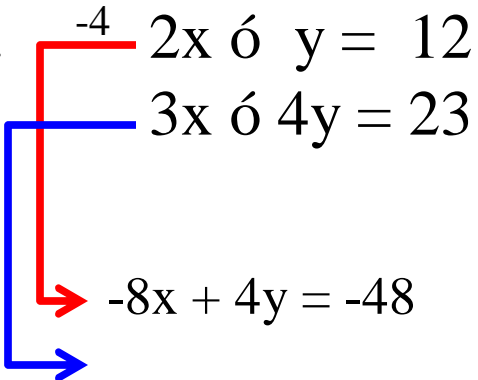
Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x + 4y = -48 \end{array}$$



To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array}$$

$$\begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array}$$

$$\begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

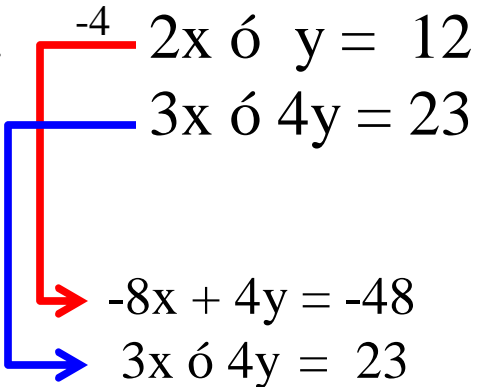
Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array}$$

$$\begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \end{array}$$



To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.
$$\begin{array}{r} -4 \\ \hline 2x + y = 12 \\ 3x + 4y = 23 \\ \hline -8x + 4y = -48 \\ 3x + 4y = 23 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \\ \color{red}2x \color{red}\circlearrowleft y = 12 \\ \color{red}3x \color{red}\circlearrowleft 4y = 23 \\ \color{red} \color{red} + 4y = -48 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \\ \color{blue}3x \color{blue}\circlearrowleft 4y = 23 \\ \hline -5x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow \\ 2x + y = 12 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \\ 3x + 4y = 23 \\ \hline -8x + 4y = -48 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow \\ 3x + 4y = 23 \\ \hline -5x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{-4} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} -8x + 4y = -48 \\ \xrightarrow{} 3x + 4y = 23 \\ \hline -5x = -25 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 7. \quad \begin{array}{l} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 2x + y = 12 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow 3x + 4y = 23 \\ \hline \color{red}\rightarrow -8x + 4y = -48 \\ \color{blue}\rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 7. \quad \begin{array}{l} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 2x + y = 12 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow 3x + 4y = 23 \\ \hline \color{red}\rightarrow -8x + 4y = -48 \\ \color{blue}\rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \end{array} \end{array}$$

x

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{-4} \\ \downarrow \\ \xrightarrow{-4} \end{array} \begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \downarrow \\ \xrightarrow{-4} \\ \downarrow \\ \xrightarrow{-4} \end{array} \begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \\ \hline -5x = -25 \\ \\ \mathbf{x} = \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 7. \quad \begin{array}{l} \overset{-4}{\color{red}} \left[\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \right. \\ \color{blue} \left[\begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \right. \end{array} \\ \begin{array}{l} \color{red} \rightarrow -8x + 4y = -48 \\ \color{blue} \rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 7. \quad \begin{array}{l} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 2x + y = 12 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow 3x + 4y = 23 \\ \hline \color{red}\rightarrow -8x + 4y = -48 \\ \color{blue}\rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 7. \quad \begin{array}{l} \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \color{red}\rightarrow 2x + y = 12 \\ \color{blue}\rule{1.5cm}{0.4pt} \color{blue}\rightarrow 3x + 4y = 23 \\ \hline \color{red}\rightarrow -8x + 4y = -48 \\ \color{blue}\rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \overset{-4}{\color{red}\curvearrowright} 2x + y = 12 \\ \color{blue}\curvearrowright 3x + 4y = 23 \\ \hline -8x + 4y = -48 \\ \color{blue}\curvearrowright 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} -4 \quad 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

The diagram shows the multiplication-addition method. A red arrow labeled '-4' points from the coefficient of x in the first equation to the coefficient of x in the second equation. A blue arrow labeled '3' points from the coefficient of x in the second equation to the coefficient of x in the first equation. The resulting equations are shown below, with a horizontal line under the second equation. The final solution is $x = 5$.

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} -4 \quad 2x + y = 12 \\ \quad 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 4y = -48 \\ \underline{3x + 4y = 23} \\ -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

The diagram shows the multiplication-addition method. A red arrow labeled '-4' points from the coefficient of x in the first equation to the coefficient of x in the second equation. A blue arrow labeled '3' points from the coefficient of x in the second equation to the coefficient of x in the first equation. The resulting equations are shown below, with the second equation multiplied by 3 to get 6x + 12y = 69. The equations are then added to eliminate the y terms, resulting in -5x = -25, which is solved for x = 5.

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{-4} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

(Note: The diagram shows red arrows indicating multiplication of the top equation by -4 and the bottom equation by 3. Blue arrows indicate the addition of the two resulting equations to eliminate y.)

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 7. \quad \begin{array}{l}
 \overset{-4}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + y = 12 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x + 4y = 23 \\
 \hline
 \color{red}\rule{1.5cm}{0.4pt} \quad -8x + 4y = -48 \\
 \color{blue}\rule{1.5cm}{0.4pt} \quad 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{-4} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} -8x + 4y = -48 \\ \xrightarrow{+3} 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

The diagram shows the multiplication-addition method. A red arrow labeled '-4' points from the first equation to the second equation, indicating that the first equation is multiplied by -4. A blue arrow labeled '+3' points from the second equation to the third equation, indicating that the second equation is multiplied by 3. The resulting equations are then added to eliminate the y terms.

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} -4 \quad 2x + y = 12 \\ \quad 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 4y = -48 \\ \underline{3x + 4y = 23} \\ -5x = -25 \\ \mathbf{x = 5} \end{array} \end{array}$$

The diagram shows the multiplication-addition method. A red arrow labeled '-4' points from the top equation to the first equation of the second set. A blue arrow labeled '3' points from the bottom equation to the second equation of the second set. A red arrow labeled '3' points from the top equation to the second equation of the second set. A blue arrow labeled '-4' points from the bottom equation to the first equation of the second set.

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 7. \quad \begin{array}{l}
 \overset{-4}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 -8x + 4y = -48 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 6x + 3y = 36
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 7. \quad \begin{array}{l}
 \overset{-4}{\text{red}} \quad 2x + y = 12 \\
 \quad \quad \quad 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \text{red arrow} \rightarrow -8x + 4y = -48 \\
 \text{blue arrow} \rightarrow 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\text{red}} \quad 2x + y = 12 \\
 \quad \quad \quad \overset{-2}{\text{blue}} \quad 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \text{red arrow} \rightarrow 6x + 3y = 36 \\
 \text{blue arrow} \rightarrow -6x +
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-4} 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-4} -8x + 4y = -48 \\
 \xrightarrow{} 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 2x + y = 12 \\
 \xrightarrow{-2} 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 6x + 3y = 36 \\
 \xrightarrow{-2} -6x + 8y = 46
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-4} 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-4} -8x + 4y = -48 \\
 \xrightarrow{+} 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 2x + y = 12 \\
 \xrightarrow{-2} 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 6x + 3y = 36 \\
 \xrightarrow{-2} -6x + 8y =
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \begin{array}{l} -4 \\ 3 \end{array} \begin{array}{l} 2x + y = 12 \\ 3x + 4y = 23 \end{array} \\ \begin{array}{l} \xrightarrow{-4} \\ \xrightarrow{3} \end{array} \end{array}$$
$$\begin{array}{r} \begin{array}{l} -8x + 4y = -48 \\ 3x + 4y = 23 \end{array} \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array}$$
$$\begin{array}{r} \begin{array}{l} 6x + 3y = 36 \\ -6x + 8y = -46 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -4 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3 .

Multiply both sides of the bottom equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 7. \quad \begin{array}{l}
 \overset{-4}{\text{red}} \quad 2x + y = 12 \\
 \quad \quad \quad 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \text{red arrow} \rightarrow -8x + 4y = -48 \\
 \text{blue arrow} \rightarrow 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\text{red}} \quad 2x + y = 12 \\
 \quad \quad \quad 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \text{red arrow} \rightarrow 6x + 3y = 36 \\
 \text{blue arrow} \rightarrow -6x + 8y = -46
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow -8x + 4y = -48 \\
 \color{blue}\rightarrow 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \color{red}\rightarrow 6x + 3y = 36 \\
 \color{blue}\rightarrow -6x + 8y = -46
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-4} 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-4} -8x + 4y = -48 \\
 \xrightarrow{} 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 2x + y = 12 \\
 \xrightarrow{-2} 3x + 4y = 23
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 6x + 3y = 36 \\
 \xrightarrow{-2} -6x + 8y = -46 \\
 \hline
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 -8x + 4y = -48 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23 \\
 \hline
 6x + 3y = 36 \\
 \color{blue}\curvearrowright -6x + 8y = -46 \\
 \hline
 5y
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\text{red}} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \\
 \begin{array}{l}
 \text{red} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 -8x + 4y = -48 \\
 3x + 4y = 23
 \end{array} \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{\text{red}} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \\
 \begin{array}{l}
 \text{red} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 6x + 3y = 36 \\
 -6x + 8y = -46
 \end{array} \\
 \hline
 5y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-4} 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 -8x + 4y = -48 \\
 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 2x + y = 12 \\
 \xrightarrow{-2} 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 6x + 3y = 36 \\
 -6x + 8y = -46 \\
 \hline
 5y = -10
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 \color{red}\rightarrow -8x + 4y = -48 \\
 \color{blue}\rightarrow 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \overset{3}{\color{red}\curvearrowright} 2x + y = 12 \\
 \color{blue}\curvearrowright 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 \color{red}\rightarrow 6x + 3y = 36 \\
 \color{blue}\rightarrow -6x + 8y = -46 \\
 \hline
 5y = -10
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\text{red}} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 -8x + 4y = -48 \\
 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \overset{3}{\text{red}} \rightarrow \\
 \text{blue} \rightarrow
 \end{array}
 \begin{array}{l}
 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 6x + 3y = 36 \\
 -6x + 8y = -46 \\
 \hline
 5y = -10 \\
 \mathbf{y}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-4} 2x + y = 12 \\
 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 -8x + 4y = -48 \\
 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 2x + y = 12 \\
 \xrightarrow{-2} 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 6x + 3y = 36 \\
 -6x + 8y = -46 \\
 \hline
 5y = -10 \\
 \mathbf{y = -2}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r}
 \begin{array}{l}
 \overset{-4}{\text{red}} \rightarrow 2x + y = 12 \\
 \text{blue} \rightarrow 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 \overset{-4}{\text{red}} \rightarrow -8x + 4y = -48 \\
 \text{blue} \rightarrow 3x + 4y = 23 \\
 \hline
 -5x = -25 \\
 \mathbf{x = 5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \overset{3}{\text{red}} \rightarrow 2x + y = 12 \\
 \overset{-2}{\text{blue}} \rightarrow 3x + 4y = 23
 \end{array} \\
 \hline
 \begin{array}{l}
 \overset{3}{\text{red}} \rightarrow 6x + 3y = 36 \\
 \overset{-2}{\text{blue}} \rightarrow -6x + 8y = -46 \\
 \hline
 5y = -10 \\
 \mathbf{y = -2}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

7.

$$\begin{array}{r} \overset{-4}{\text{red}} \quad 2x + y = 12 \\ \quad \quad \quad 3x + 4y = 23 \end{array}$$

$$\begin{array}{r} \text{red} \rightarrow -8x + 4y = -48 \\ \text{blue} \rightarrow 3x + 4y = 23 \\ \hline -5x = -25 \\ \mathbf{x = 5} \end{array}$$

$$\begin{array}{r} \overset{3}{\text{red}} \quad 2x + y = 12 \\ \quad \quad \quad 3x + 4y = 23 \end{array}$$

$$\begin{array}{r} \text{red} \rightarrow 6x + 3y = 36 \\ \text{blue} \rightarrow -6x + 8y = -46 \\ \hline 5y = -10 \\ \mathbf{y = -2} \end{array}$$

$$\begin{array}{l} \mathbf{x = 5} \\ \mathbf{y = -2} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -4.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{aligned} 4x + 5y &= 17 \\ x + 2y &= 8 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{aligned} 4x + 5y &= 17 \\ x + 2y &= 8 \end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


8.
$$\begin{aligned} 4x + 5y &= 17 \\ x + 2y &= 8 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


8.
$$\begin{array}{r} 2 \\ 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{r} 2 \\ 4x - 5y = 17 \\ x - 2y = 8 \end{array}$$

$$8x$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.


General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x - 5y = 17 \\ x - 2y = 8 \end{array}$$

$2 \times$

$8x - 10y = 34$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x - 5y = 17 \\ x - 2y = 8 \end{array}$$


$$8x - 10y = 16$$

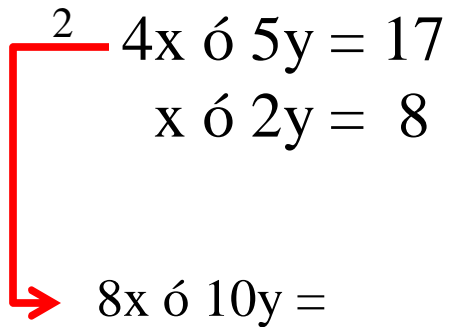
To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$


$$8x + 10y =$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$

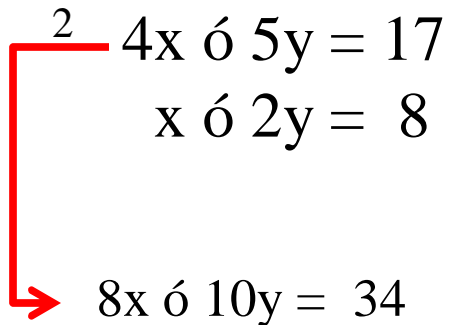

$$8x + 10y = 34$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$

$$8x + 10y = 34$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$

$$\begin{array}{l} 8x + 10y = 34 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$

$$\begin{array}{l} 8x + 10y = 34 \\ -5x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.
$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$
$$\begin{array}{l} 8x + 10y = 34 \\ -5x - 10y = -40 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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General Algebra 2 CWS #3 Unit 3 Solutions

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Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{l} 4x + 5y = 17 \\ x + 2y = 8 \end{array}$$

$$\begin{array}{l} 8x + 10y = 34 \\ \underline{-5x + 10y = -40} \end{array}$$

To solve for x , we must eliminate the y terms.

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Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 2 \\ 4x + 5y = 17 \\ -5 \\ x + 2y = 8 \\ \hline 8x + 10y = 34 \\ -5x + 10y = -40 \\ \hline 3x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

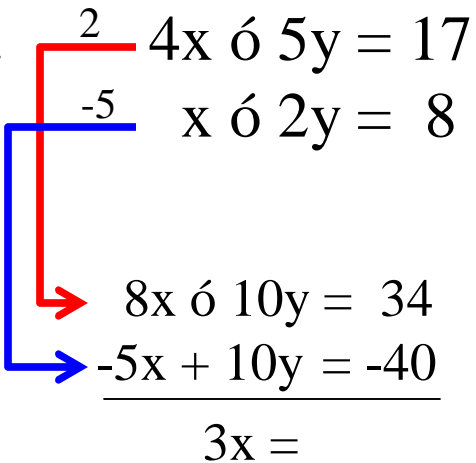
Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

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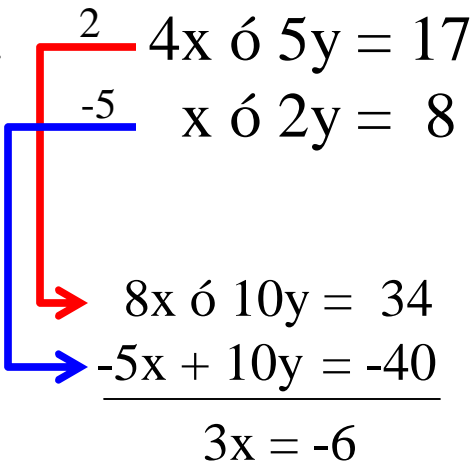
General Algebra 2 CWS #3 Unit 3 Solutions

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$$3x = -6$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 8. \quad \begin{array}{l} \xrightarrow{2} 4x + 5y = 17 \\ \xrightarrow{-5} x + 2y = 8 \end{array} \\ \begin{array}{l} \xrightarrow{2} 8x + 10y = 34 \\ \xrightarrow{-5} -5x + 10y = -40 \\ \hline 3x = -6 \end{array} \end{array}$$

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

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Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

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Bring down the top equation.

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$4x + 5y = 17$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4 .

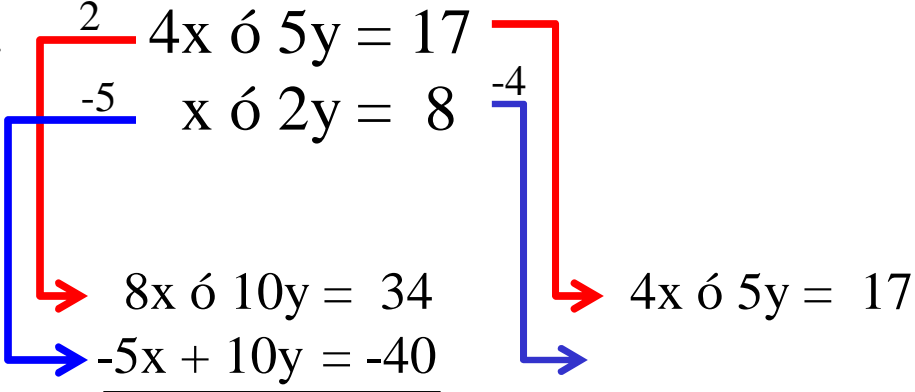
General Algebra 2 CWS #3 Unit 3 Solutions

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To solve for x , we must eliminate the y terms.

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Add the equations.

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 \hline
 3x = -6 \\
 x = -2
 \end{array}
 \end{array}$$

To solve for x , we must eliminate the y terms.

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$$\begin{array}{r}
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 -4x +
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 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Add the equations.

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 \xrightarrow{-5} -5x + 10y = -40 \\
 \hline
 3x = -6 \\
 x = -2
 \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{-4} 4x + 5y = 17 \\
 \xrightarrow{-4} -4x + 8y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

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$$\begin{array}{r} 4x + 5y = 17 \\ -4x + 8y = -32 \end{array}$$

To solve for x , we must eliminate the y terms.

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Notice that the y terms are opposite.

Add the equations.

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 -4x + 8y = -32
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To solve for x , we must eliminate the y terms.

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$$3x = -6$$

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To solve for x, we must eliminate the y terms.

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Add the equations.

Now, solve for x.

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 \hline
 3x = -6 \\
 \hline
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 \begin{array}{r}
 \hline
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To solve for x, we must eliminate the y terms.

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 -4x + 8y = -32 \\
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$$\begin{array}{r}
 \hline
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 \hline
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 \end{array}
 \qquad
 \begin{array}{r}
 \hline
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 \hline
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4.

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To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

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 \hline
 3x = -6 \\
 x = -2
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 4x + 5y = 17 \\
 -4x + 8y = -32
 \end{array} \\
 \hline
 3y = -15 \\
 y
 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5 .

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4 .

Notice that the x terms are opposite.

Add the equations.

Now, solve for y .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.

$$\begin{array}{r}
 \begin{array}{l}
 2 \\
 -5
 \end{array}
 \begin{array}{l}
 4x + 5y = 17 \\
 x + 2y = 8
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{2} \\
 \xrightarrow{-5}
 \end{array}
 \begin{array}{l}
 8x + 10y = 34 \\
 -5x + 10y = -40
 \end{array}
 \quad
 \begin{array}{l}
 \begin{array}{l}
 -4 \\
 -4
 \end{array}
 \begin{array}{l}
 4x + 5y = 17 \\
 x + 2y = 8
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-4} \\
 \xrightarrow{-4}
 \end{array}
 \begin{array}{l}
 4x + 5y = 17 \\
 -4x + 8y = -32
 \end{array}$$

$$\begin{array}{r}
 \hline
 3x = -6 \\
 \hline
 x = -2
 \end{array}
 \qquad
 \begin{array}{r}
 \hline
 3y = -15 \\
 \hline
 y =
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + 5y = 17 \\
 -5 \quad x + 2y = 8
 \end{array} \\
 \hline
 \begin{array}{l}
 8x + 10y = 34 \\
 -5x + 10y = -40 \\
 \hline
 3x = -6 \\
 \mathbf{x = -2}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 4x + 5y = 17 \\
 -4x + 8y = -32
 \end{array} \\
 \hline
 \begin{array}{l}
 3y = -15 \\
 \mathbf{y = -5}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

8.

$$\begin{array}{r}
 \begin{array}{l}
 2 \quad 4x + 5y = 17 \\
 -5 \quad x + 2y = 8
 \end{array} \\
 \hline
 \begin{array}{l}
 8x + 10y = 34 \\
 -5x + 10y = -40 \\
 \hline
 3x = -6 \\
 x = -2
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 -4 \quad 4x + 5y = 17 \\
 -4 \quad -4x + 8y = -32
 \end{array} \\
 \hline
 \begin{array}{l}
 3y = -15 \\
 y = -5
 \end{array}
 \end{array}$$

$$\begin{array}{l}
 x = -2 \\
 y = -5
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by -5.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{aligned} 3x + 7y &= 6 \\ x + 3y &= -2 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{aligned} 3x + 7y &= 6 \\ x - 3y &= -2 \end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


9.
$$\begin{aligned} 3x + 7y &= 6 \\ x + 3y &= -2 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

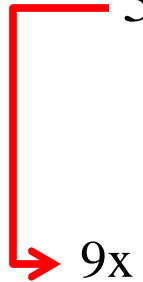
9.
$$\begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


9.
$$\begin{array}{r} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$

 $9x$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

 $9x +$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$



$9x + 21y$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$


$$9x + 21y =$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{r} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$


$$9x + 21y = 18$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{r} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$


$$9x + 21y = 18$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

$$9x + 21y = 18$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

$$\begin{array}{l} \xrightarrow{3} 9x + 21y = 18 \\ \xrightarrow{7} 7x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$

$$\begin{array}{l} \xrightarrow{\times 3} 9x + 21y = 18 \\ \xrightarrow{\times 7} 7x - 21y = -14 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$

$$\begin{array}{l} 9x + 21y = 18 \\ 7x - 21y = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

$$\begin{array}{l} 9x + 21y = 18 \\ 7x + 21y = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

$$\begin{array}{l} 9x + 21y = 18 \\ 7x + 21y = -14 \end{array}$$

To solve for x , we must eliminate the y terms.

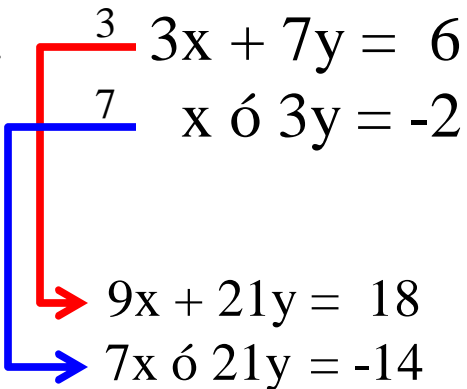
Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$

$$\begin{array}{l} 9x + 21y = 18 \\ 7x + 21y = -14 \end{array}$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$
$$\begin{array}{l} 9x + 21y = 18 \\ 7x + 21y = -14 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$

$$\begin{array}{l} 9x + 21y = 18 \\ 7x - 21y = -14 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3x + 7y = 6 \\ x + 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x + 21y = -14 \\ \hline 16x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3x + 7y = 6 \\ 7x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 9. \quad \begin{array}{l} \xrightarrow{3} 3x + 7y = 6 \\ \xrightarrow{7} x + 3y = -2 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 21y = 18} \\ \xrightarrow{7x + 21y = -14} \end{array} \\ \hline 16x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \\ 7 \end{array} \begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \\ 7 \end{array} \begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$

x

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 9. \quad \begin{array}{l} \xrightarrow{3} 3x + 7y = 6 \\ \xrightarrow{7} x + 3y = -2 \end{array} \\ \begin{array}{l} \xrightarrow{9x + 21y = 18} \\ \xrightarrow{7x + 21y = -14} \\ \hline 16x = 4 \end{array} \end{array}$$

$$x =$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 9. \quad \begin{array}{l} \xrightarrow{3} 3x + 7y = 6 \\ \xrightarrow{7} x + 3y = -2 \end{array} \\ \begin{array}{l} \xrightarrow{3} 9x + 21y = 18 \\ \xrightarrow{7} 7x + 21y = -14 \end{array} \\ \hline 16x = 4 \\ \\ \mathbf{x} = \frac{1}{4} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

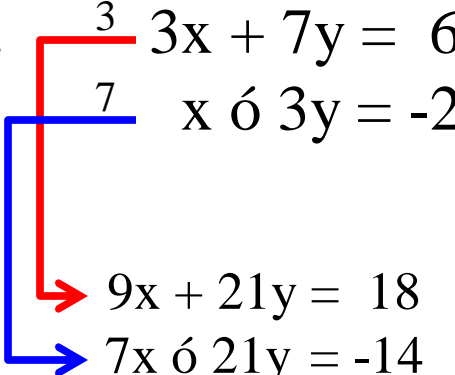
Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$



$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$
$$x = \frac{1}{4}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.
$$\begin{array}{r} 3 \\ 7 \end{array} \begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$

$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$

$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \\ 7 \end{array} \begin{array}{l} 3x + 7y = 6 \\ x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$
$$x = \frac{1}{4}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \quad 3x + 7y = 6 \\ 7 \quad x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$
$$3x + 7y = 6$$
$$x = \frac{1}{4}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \quad 3x + 7y = 6 \\ 7 \quad x - 3y = -2 \end{array}$$
$$\begin{array}{r} 9x + 21y = 18 \\ 7x - 21y = -14 \\ \hline 16x = 4 \end{array}$$
$$x = \frac{1}{4}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} 3 \quad 3x + 7y = 6 \\ 7 \quad x + 3y = -2 \\ \hline 9x + 21y = 18 \\ 7x + 21y = -14 \\ \hline 16x = 4 \\ x = \frac{1}{4} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 3x + 7y = 6 \\
 \xrightarrow{7} x + 3y = -2
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \end{array}$$

$\xrightarrow{-3} 3x + 7y = 6$
 $\xrightarrow{-3} -3x$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 3x + 7y = 6 \\
 \xrightarrow{7} x + 3y = -2
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \end{array}$$

$\xrightarrow{-3} 3x + 7y = 6$
 $\xrightarrow{-3} -3x +$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 3x + 7y = 6 \\
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 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-3} 3x + 7y = 6 \\
 \xrightarrow{-3} -3x + 9y = -6
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-3} 3x + 7y = 6 \\
 \xrightarrow{-3} -3x + 9y = -6 \\
 \hline
 2y = 0 \\
 y = 0
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \quad
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y =
 \end{array}$$

$$16x = 4$$

$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r} \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{7} \end{array} \begin{array}{l} 3x + 7y = 6 \\ x + 3y = -2 \end{array} \\ \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{-3} \end{array} \end{array}$$
$$\begin{array}{r} \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{7} \end{array} \begin{array}{l} 9x + 21y = 18 \\ 7x + 21y = -14 \end{array} \\ \begin{array}{l} \xrightarrow{3} \\ \xrightarrow{-3} \end{array} \end{array}$$

$$16x = 4$$
$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$16x = 4$$

$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$16x = 4$$

$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{r}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \qquad
 \begin{array}{r}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$16x = 4$$

$$x = \frac{1}{4}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

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Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 3x + 7y = 6 \\
 \xrightarrow{7} x + 3y = -2
 \end{array} \\
 \hline
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4
 \end{array} \\
 \\
 \mathbf{x} = \frac{1}{4}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-3} 3x + 7y = 6 \\
 \xrightarrow{-3} -3x + 9y = 6
 \end{array} \\
 \hline
 16y
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-7}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$\begin{array}{r}
 16x = 4 \\
 \\
 \mathbf{x = \frac{1}{4}}
 \end{array}
 \qquad
 \begin{array}{r}
 16y = \\
 \\
 \mathbf{y = \frac{1}{4}}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} 3x + 7y = 6 \\
 \xrightarrow{7} x + 3y = -2
 \end{array} \\
 \hline
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-3} 3x + 7y = 6 \\
 \xrightarrow{-3} -3x + 9y = 6
 \end{array} \\
 \hline
 16y = 12
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{r}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \qquad
 \begin{array}{r}
 \xrightarrow{-3} \\
 \xrightarrow{-3}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$\begin{array}{r}
 16x = 4 \\
 16y = 12
 \end{array}$$

$$\mathbf{x = \frac{1}{4}}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 x + 3y = -2
 \end{array}
 \end{array}
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-7}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
 \xrightarrow{7}
 \end{array}
 \begin{array}{l}
 9x + 21y = 18 \\
 7x + 21y = -14
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{-3} \\
 \xrightarrow{-7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$\begin{array}{r}
 16x = 4 \\
 \mathbf{x} = \frac{1}{4}
 \end{array}
 \qquad
 \begin{array}{r}
 16y = 12 \\
 \mathbf{y}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
 \begin{array}{l}
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 3x + 7y = 6 \\
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$$\begin{array}{r}
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 9x + 21y = 18 \\
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 \xrightarrow{-3} \\
 \xrightarrow{-7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$\begin{array}{r}
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \qquad
 \begin{array}{r}
 16y = 12 \\
 y = \frac{3}{4}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
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 \xrightarrow{-7}
 \end{array}$$

$$\begin{array}{r}
 \xrightarrow{3} \\
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 9x + 21y = 18 \\
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 \qquad
 \begin{array}{l}
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 \xrightarrow{-7}
 \end{array}
 \begin{array}{l}
 3x + 7y = 6 \\
 -3x + 9y = 6
 \end{array}$$

$$\begin{array}{r}
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \qquad
 \begin{array}{r}
 16y = 12 \\
 y = \frac{3}{4}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

9.

$$\begin{array}{r}
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 \xrightarrow{3} 3x + 7y = 6 \\
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 \end{array} \\
 \hline
 \begin{array}{l}
 \xrightarrow{3} 9x + 21y = 18 \\
 \xrightarrow{7} 7x + 21y = -14 \\
 \hline
 16x = 4 \\
 x = \frac{1}{4}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 \xrightarrow{-3} 3x + 7y = 6 \\
 \xrightarrow{-3} -3x + 9y = 6
 \end{array} \\
 \hline
 16y = 12 \\
 y = \frac{3}{4}
 \end{array}$$

$$\begin{array}{l}
 x = \frac{1}{4} \\
 y = \frac{3}{4}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by 7.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Bring down the top equation.

Multiply both sides of the bottom equation by -3.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$\begin{aligned} 4x + y &= 1 \\ 3x + 2y &= 0 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

10.
$$\begin{aligned} 4x + y &= 1 \\ 3x + 2y &= 0 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$4x + y = 1$$
$$3x + 2y = 0$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10. $\begin{array}{l} -2 \cdot 4x + y = 1 \\ 3x + 2y = 0 \end{array}$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$\begin{array}{r} -2 \\ 4x + y = 1 \\ 3x + 2y = 0 \end{array}$$



$-8x$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$\begin{array}{r} -2 \\ 4x + y = 1 \\ 3x + 2y = 0 \\ -8x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$\begin{array}{r} -2 \\ \hline 4x + y = 1 \\ 3x + 2y = 0 \\ \hline -8x + 2y \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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To solve for x , we must eliminate the y terms.

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Solve each of the following systems of equations using the **multiplication-addition method**.

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} -2 \\ \hline 4x + y = 1 \\ 3x + 2y = 0 \\ \hline -8x + 2y = -2 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.
$$\begin{array}{l} 4x + y = 1 \\ 3x + 2y = 0 \end{array}$$

$$-8x + 2y = -2$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

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Solve each of the following systems of equations using the **multiplication-addition method**.

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$\begin{array}{r} -2 \\ \hline 4x + y = 1 \\ 3x + 2y = 0 \\ \hline -8x + 2y = -2 \\ 3x + 2y = 0 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} -2 \\ \hline 4x + y = 1 \\ 3x + 2y = 0 \\ \hline -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \begin{array}{l} \downarrow \\ \rightarrow \end{array} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \begin{array}{l} \downarrow \\ \rightarrow \end{array} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline \quad \quad \quad -5x \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \left. \begin{array}{l} \color{red} \rightarrow \\ \color{red} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \left. \begin{array}{l} \color{blue} \rightarrow \\ \color{blue} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \left. \begin{array}{l} \color{red} \rightarrow \\ \color{red} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \left. \begin{array}{l} \color{blue} \rightarrow \\ \color{blue} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = -2 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \left. \begin{array}{l} \color{red} \rightarrow \\ \color{red} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \left. \begin{array}{l} \color{blue} \rightarrow \\ \color{blue} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = -2 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \left. \begin{array}{l} \color{red} \downarrow \\ \color{red} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \left. \begin{array}{l} \color{blue} \downarrow \\ \color{blue} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = -2 \end{array}$$

x

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{\color{red}} 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \color{red} \left. \begin{array}{l} \color{red} \downarrow \\ \color{red} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \color{blue} \left. \begin{array}{l} \color{blue} \downarrow \\ \color{blue} \rightarrow \end{array} \right\} \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = -2 \end{array}$$

$$\mathbf{x} =$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} \overset{-2}{4x + y = 1} \\ 3x + 2y = 0 \end{array} \\ \begin{array}{l} \text{Red arrow: } -2 \times (4x + y = 1) \\ \text{Blue arrow: } 1 \times (3x + 2y = 0) \end{array} \\ \hline \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \end{array} \\ \hline -5x = -2 \\ \\ \mathbf{x = \frac{2}{5}} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \cdot 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \begin{array}{l} \text{Red arrow: } -2 \cdot (4x + y = 1) \\ \text{Blue arrow: } 1 \cdot (3x + 2y = 0) \end{array} \\ \hline \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \\ \hline x = \frac{2}{5} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \cdot 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \begin{array}{l} \text{Red arrow: } -2 \cdot (4x + y = 1) \\ \text{Blue arrow: } 1 \cdot (3x + 2y = 0) \end{array} \\ \hline \begin{array}{l} -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \\ \mathbf{x} = \frac{2}{5} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by -2 .

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by 3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{r} -2 \quad 4x + y = 1 \\ \quad \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{r} -8x + 2y = -2 \\ \quad \quad 3x + 2y = 0 \\ \hline -5x = -2 \\ \\ \mathbf{x} = \frac{2}{5} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{r} -2 \quad 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \begin{array}{l} \text{Red arrow: } -2 \times (4x + y = 1) \rightarrow -8x - 2y = -2 \\ \text{Blue arrow: } 3x + 2y = 0 \end{array} \\ \hline \begin{array}{r} -8x - 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \end{array}$$

$\begin{array}{l} 3 \\ \text{Red arrow: } 3 \times (3x + 2y = 0) \rightarrow 9x + 6y = 0 \end{array}$

$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \\ \quad \quad \quad x = \frac{2}{5} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{r} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{r} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \\ \\ \mathbf{x} = \frac{2}{5} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \\ \quad \quad \quad x = \frac{2}{5} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \\ \\ \mathbf{x} = \frac{2}{5} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{3} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad \quad 3x + 2y = 0 \\ \hline -5x = -2 \\ \\ \mathbf{x} = \frac{2}{5} \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} -2 \quad 4x + y = 1 \\ 3x + 2y = 0 \end{array}$$

$\xrightarrow{-2}$

$$\begin{array}{r} -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \end{array}$$

$\xrightarrow{-4}$

$$\begin{array}{r} 12x + 3y = 3 \end{array}$$
$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array}$$

$\xrightarrow{-2}$

$$\begin{array}{r} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \end{array}$$

$\xrightarrow{-4}$

$$\begin{array}{r} 12x + 3y = 3 \\ -12x \end{array}$$
$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 10. \quad \begin{array}{l}
 \overset{-2}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{\text{red}} -8x + 2y = -2 \\
 \xrightarrow{\text{blue}} 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 \\
 \mathbf{x = \frac{2}{5}}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{} \\
 \overset{-4}{} \\
 \xrightarrow{\text{red}} 12x + 3y = 3 \\
 \xrightarrow{\text{blue}} -12x + 0y = 0
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad \quad 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \end{array} \quad \begin{array}{l} 3 \\ -4 \\ \xrightarrow{3} \\ \xrightarrow{-4} \end{array} \begin{array}{l} 12x + 3y = 3 \\ -12x + 8y = 0 \end{array}$$

$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ + 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \end{array} \quad \begin{array}{l} 3 \\ -4 \\ \xrightarrow{3} \\ \xrightarrow{-4} \end{array} \begin{array}{l} 12x + 3y = 3 \\ -12x + 8y = \end{array}$$

$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 10. \quad \begin{array}{l} -2 \quad 4x + y = 1 \\ \quad 3x + 2y = 0 \end{array} \\ \begin{array}{l} \xrightarrow{-2} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{l} -8x + 2y = -2 \\ \quad 3x + 2y = 0 \\ \hline -5x = -2 \end{array} \end{array} \quad \begin{array}{l} 3 \\ -4 \\ \xrightarrow{3} \\ \xrightarrow{-4} \end{array} \begin{array}{l} 12x + 3y = 3 \\ -12x + 8y = 0 \end{array}$$

$$x = \frac{2}{5}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 10. \quad \begin{array}{l}
 \overset{-2}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } \rightarrow -8x + 2y = -2 \\
 \text{Blue arrow: } \rightarrow 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 \\
 \mathbf{x} = \frac{2}{5}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{3}{} \\
 \overset{-4}{} \\
 \begin{array}{l}
 \text{Red arrow: } \rightarrow 12x + 3y = 3 \\
 \text{Blue arrow: } \rightarrow -12x + 8y = 0
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 10. \quad \begin{array}{l}
 \overset{-2}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } -2 \times (4x + y = 1) \rightarrow -8x + 2y = -2 \\
 \text{Blue arrow: } 3x + 2y = 0
 \end{array} \\
 \hline
 -5x = -2 \\
 \\
 \mathbf{x = \frac{2}{5}}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{} \\
 \overset{-4}{}
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } 3 \times (4x + y = 1) \rightarrow 12x + 3y = 3 \\
 \text{Blue arrow: } -4 \times (3x + 2y = 0) \rightarrow -12x + 8y = 0
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 10. \quad \begin{array}{l}
 \overset{-2}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } -2 \times \text{top equation} \\
 \text{Blue arrow: } 1 \times \text{bottom equation}
 \end{array} \\
 \hline
 \begin{array}{l}
 -8x + 2y = -2 \\
 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 \\
 \mathbf{x = \frac{2}{5}}
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l}
 \overset{3}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } 3 \times \text{top equation} \\
 \text{Blue arrow: } -4 \times \text{bottom equation}
 \end{array} \\
 \hline
 \begin{array}{l}
 12x + 3y = 3 \\
 -12x + 8y = 0 \\
 \hline
 11y = 3 \\
 \\
 \mathbf{y = \frac{3}{11}}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r}
 \begin{array}{l}
 -2 \quad 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-2} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 -8x + 2y = -2 \\
 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 \\
 x = \frac{2}{5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 3 \\
 -4
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 12x + 3y = 3 \\
 -12x + 8y = 0 \\
 \hline
 -5y
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r}
 \begin{array}{r}
 -2 \quad 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } -2 \times \text{top equation} \\
 \text{Blue arrow: } 3 \times \text{bottom equation}
 \end{array} \\
 \hline
 \begin{array}{r}
 -8x + 2y = -2 \\
 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 x = \frac{2}{5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{r}
 3 \quad 4x + y = 1 \\
 -4 \quad 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \text{Red arrow: } 3 \times \text{top equation} \\
 \text{Blue arrow: } -4 \times \text{bottom equation}
 \end{array} \\
 \hline
 \begin{array}{r}
 12x + 3y = 3 \\
 -12x + 8y = 0 \\
 \hline
 -5y =
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} \begin{array}{r} -2 \\ 4x + y = 1 \\ 3x + 2y = 0 \end{array} \\ \begin{array}{r} \xrightarrow{-2} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{r} -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \\ x = \frac{2}{5} \end{array} \end{array}$$
$$\begin{array}{r} \begin{array}{r} 3 \\ 12x + 3y = 3 \\ -12x + 8y = 0 \end{array} \\ \begin{array}{r} \xrightarrow{3} \\ \xrightarrow{-4} \end{array} \\ \begin{array}{r} 12x + 3y = 3 \\ -12x + 8y = 0 \\ \hline -5y = 3 \end{array} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r}
 \begin{array}{r}
 \overset{-2}{} 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{r}
 3x + 2y = 0 \\
 3x + 2y = 0
 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{r}
 \overset{3}{} 12x + 3y = 3 \\
 -12x + 8y = 0
 \end{array} \\
 \begin{array}{r}
 12x + 3y = 3 \\
 -12x + 8y = 0
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 -8x + 2y = -2 \\
 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 \\
 \mathbf{x = \frac{2}{5}}
 \end{array}
 \qquad
 \begin{array}{r}
 12x + 3y = 3 \\
 -12x + 8y = 0 \\
 \hline
 -5y = 3
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} \overset{-2}{\color{red}\curvearrowright} 4x + y = 1 \\ \color{blue}\curvearrowright 3x + 2y = 0 \\ \hline -8x + 2y = -2 \\ \color{blue}\curvearrowright 3x + 2y = 0 \\ \hline -5x = -2 \\ \color{red}\curvearrowright x = \frac{2}{5} \end{array}$$

$$\begin{array}{r} \overset{3}{\color{red}\curvearrowright} 12x + 3y = 3 \\ \color{blue}\curvearrowright -12x + 8y = 0 \\ \hline -5y = 3 \\ \color{red}\curvearrowright y \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r}
 \begin{array}{l}
 -2 \quad 4x + y = 1 \\
 3x + 2y = 0
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{-2} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 -8x + 2y = -2 \\
 3x + 2y = 0 \\
 \hline
 -5x = -2 \\
 x = \frac{2}{5}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l}
 3 \\
 -4
 \end{array} \\
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-4}
 \end{array} \\
 \begin{array}{l}
 12x + 3y = 3 \\
 -12x + 8y = 0 \\
 \hline
 -5y = 3 \\
 y = -\frac{3}{5}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

10.

$$\begin{array}{r} -2 \quad 4x + y = 1 \\ 3x + 2y = 0 \end{array}$$
$$\begin{array}{r} -8x + 2y = -2 \\ 3x + 2y = 0 \\ \hline -5x = -2 \\ x = \frac{2}{5} \end{array}$$

$$\begin{array}{r} 3 \quad 4x + y = 1 \\ -4 \quad 3x + 2y = 0 \end{array}$$
$$\begin{array}{r} 12x + 3y = 3 \\ -12x + 8y = 0 \\ \hline -5y = 3 \\ y = -\frac{3}{5} \end{array}$$

$$\begin{array}{l} x = \frac{2}{5} \\ y = -\frac{3}{5} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by -2.

Bring down the bottom equation.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -4.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.
$$\begin{aligned}x & - 4y = 3 \\ 3x + y & = 2\end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.
$$\begin{aligned}x - 4y &= 3 \\ 3x + y &= 2\end{aligned}$$

To solve for x , we must eliminate the y terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


11.
$$\begin{aligned}x - 4y &= 3 \\ 3x + y &= 2\end{aligned}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.  $x - 4y = 3$
 $3x + y = 2$


To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11. $x - 4y = 3$
 $3x + y = 2$
 $x - 4y = 3$




To solve for x , we must eliminate the y terms.

Bring down the top equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.  $x - 4y = 3$
 $3x + y = 2$
 $x - 4y = 3$

To solve for x , we must eliminate the y terms.

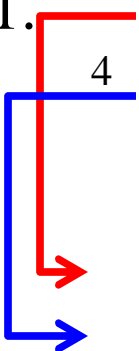
Bring down the top equation.

Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11. $x - 4y = 3$
 $3x + y = 2$
 $x - 4y = 3$



To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$

$x - 4y = 3$

$12x$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$

$x - 4y = 3$

$12x +$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$

$x - 4y = 3$

$12x + 4y$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

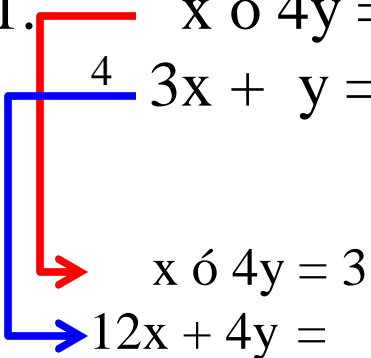
Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{l} x - 4y = 3 \\ 12x + 4y = 8 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

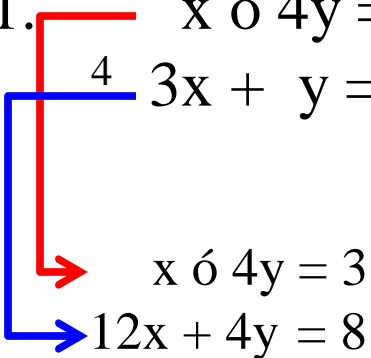
Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{l} x - 4y = 3 \\ 12x + 4y = 8 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

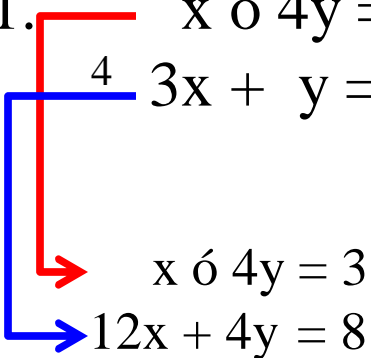
Multiply both sides of the bottom equation by 4.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{l} x - 4y = 3 \\ 12x + 4y = 8 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{l} x - 4y = 3 \\ 3x + y = 2 \end{array}$$

$\xrightarrow{4}$

$$\begin{array}{l} x - 4y = 3 \\ 12x + 4y = 8 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 4 \cdot 3x + y = 2 \\ \hline x - 4y = 3 \\ 12x + 4y = 8 \\ \hline \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 4(3x + y = 2) \\ \hline x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 4(3x + y = 2) \\ \hline x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 4(3x + y = 2) \\ \hline x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$
$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$
$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

x

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$
$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x =$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$
$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

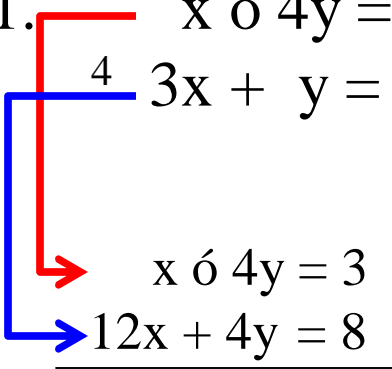
Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$
$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

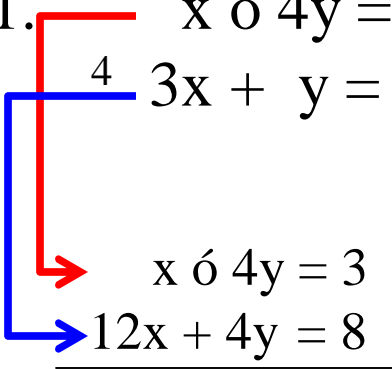
To solve for y , we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x - 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{r} x - 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\ \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\ \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \end{array} \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\ \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\ \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \end{array} \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\
 \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\
 \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \end{array} \\
 \hline
 13x = 11
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\ \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\ \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \end{array} \\ \hline 13x = 11 \end{array}$$

$-3x + 12y$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\ \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\ \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \end{array} \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

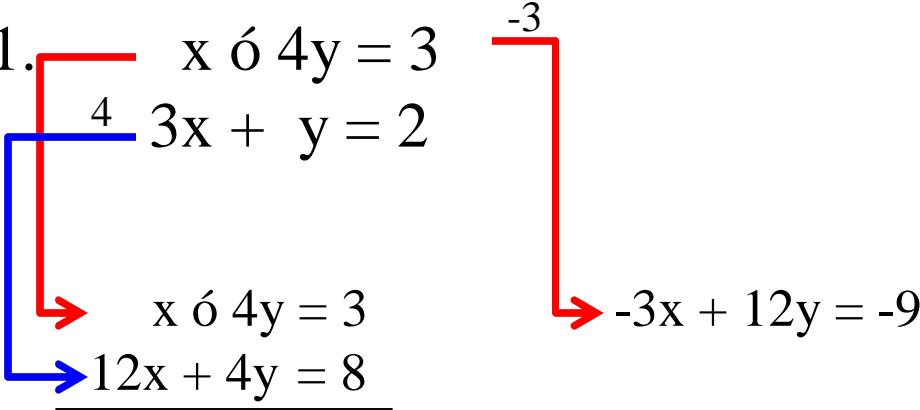
Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{r} x + 4y = 3 \\ -3x + 12y = -9 \\ \hline 13x = 11 \end{array}$$
$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

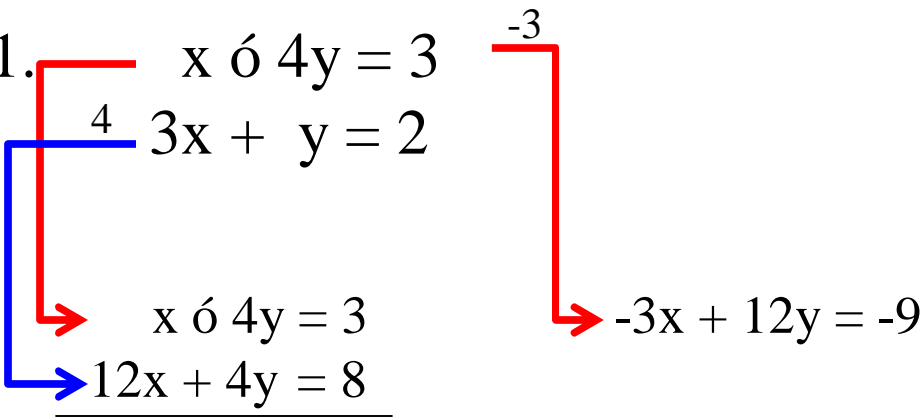
Multiply both sides of the top equation by -3 .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{r} x + 4y = 3 \\ -3x + 12y = -9 \\ \hline 13x = 11 \end{array}$$
$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

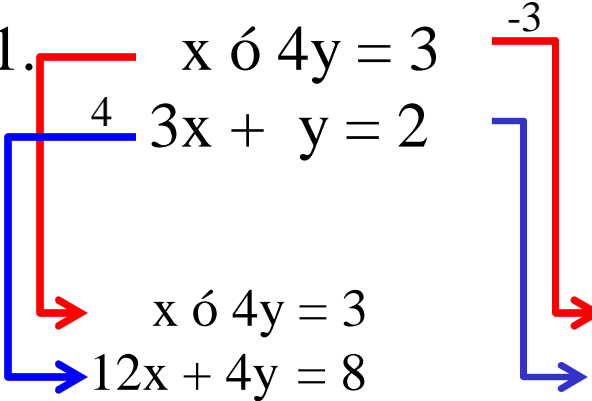
Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$



$$\begin{array}{r} x + 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 11. \quad \begin{array}{l} x + 4y = 3 \\ 3x + y = 2 \end{array} \\
 \begin{array}{l} \xrightarrow{4} \\ \xrightarrow{-3} \end{array} \\
 \begin{array}{l} x + 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array} \\
 \\
 \begin{array}{l} x + 4y = 3 \\ -3x + 12y = -9 \\ 3x + y = 2 \end{array}
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$

Diagram illustrating the multiplication-addition method:

- A red arrow labeled "4" points from the coefficient of x in the top equation to the coefficient of x in the bottom equation.
- A blue arrow labeled "4" points from the coefficient of y in the top equation to the coefficient of y in the bottom equation.
- A red arrow labeled "-3" points from the coefficient of x in the top equation to the coefficient of x in the bottom equation.
- A blue arrow labeled "-3" points from the coefficient of y in the top equation to the coefficient of y in the bottom equation.

$$\begin{array}{r} x + 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

Bring down the bottom equation.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$

Diagram illustrating the multiplication-addition method:

- A red arrow labeled "4" points from the coefficient of y in the second equation to the coefficient of y in the first equation.
- A blue arrow labeled "4" points from the coefficient of x in the first equation to the coefficient of x in the second equation.
- A red arrow labeled "-3" points from the coefficient of x in the first equation to the coefficient of x in the second equation.
- A blue arrow labeled "-3" points from the coefficient of y in the second equation to the coefficient of y in the first equation.

$$\begin{array}{r} x + 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r}
 x + 4y = 3 \\
 3x + y = 2
 \end{array}$$
$$\begin{array}{r}
 4x + 16y = 12 \\
 -3x - 12y = -6 \\
 \hline
 x + 4y = 3 \\
 12x + 4y = 8 \\
 \hline
 13x = 11
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = -9 \\
 3x + y = 2 \\
 \hline
 13y = -7
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r}
 x + 4y = 3 \\
 3x + y = 2
 \end{array}$$
$$\begin{array}{r}
 x + 4y = 3 \\
 12x + 4y = 8 \\
 \hline
 13x = 11
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = -9 \\
 3x + y = 2 \\
 \hline
 13y
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r}
 x + 4y = 3 \\
 3x + y = 2
 \end{array}$$
$$\begin{array}{r}
 x + 4y = 3 \\
 12x + 4y = 8 \\
 \hline
 13x = 11
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = -9 \\
 3x + y = 2 \\
 \hline
 13y =
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r} x + 4y = 3 \\ 3x + y = 2 \end{array}$$

Diagram illustrating the multiplication-addition method for solving the system:

- A red arrow labeled "4" points from the coefficient of y in the second equation to the coefficient of y in the first equation.
- A blue arrow labeled "4" points from the coefficient of x in the first equation to the coefficient of x in the second equation.

$$\begin{array}{r} x + 4y = 3 \\ 12x + 4y = 8 \\ \hline 13x = 11 \end{array}$$
$$x = \frac{11}{13}$$

Diagram illustrating the multiplication-addition method for solving the system:

- A red arrow labeled "-3" points from the coefficient of x in the first equation to the coefficient of x in the second equation.
- A blue arrow labeled "-3" points from the coefficient of y in the second equation to the coefficient of y in the first equation.

$$\begin{array}{r} -3x + 12y = -9 \\ 3x + y = 2 \\ \hline 13y = -7 \end{array}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

To solve for y , we must eliminate the x terms.

Multiply both sides of the top equation by -3 .

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

11.

$$\begin{array}{r}
 x + 4y = 3 \\
 3x + y = 2
 \end{array}$$
$$\begin{array}{r}
 x + 4y = 3 \\
 12x + 4y = 8 \\
 \hline
 13x = 11
 \end{array}$$

$$\begin{array}{r}
 -3x + 12y = -9 \\
 3x + y = 2 \\
 \hline
 13y = -7
 \end{array}$$

$$x = \frac{11}{13}$$

To solve for x, we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

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 3x + y = 2 \\
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Multiply both sides of the bottom equation by 4.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

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Add the equations.

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 \hline
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 \end{array}$$

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Bring down the top equation.

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To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

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$$\begin{array}{r}
 -3x + 12y = -9 \\
 3x + y = 2 \\
 \hline
 13y = -7
 \end{array}$$

$$x = \frac{11}{13}$$

$$y = \frac{-7}{13}$$

To solve for x , we must eliminate the y terms.

Bring down the top equation.

Multiply both sides of the bottom equation by 4.

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Multiply both sides of the top equation by -3 .

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General Algebra 2 CWS #3 Unit 3 Solutions

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To solve for x, we must eliminate the y terms.

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Multiply both sides of the bottom equation by 4.

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Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by -3.

Bring down the bottom equation.

Notice that the x terms are opposite.

Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{aligned} 2x + 3y &= 4 \\ 3x - 2y &= 5 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

To solve for x , we must eliminate the y terms.

12.
$$\begin{aligned} 2x + 3y &= 4 \\ 3x - 2y &= 5 \end{aligned}$$

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.


12.
$$\begin{aligned} 2x + 3y &= 4 \\ 3x - 2y &= 5 \end{aligned}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{aligned} 2x + 3y &= 4 \\ 3x - 2y &= 5 \end{aligned}$$


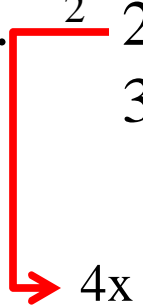
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Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$



$4x$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$


 $4x +$

To solve for x , we must eliminate the y terms.


Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$4x + 6y$$




To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$


$$4x + 6y =$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$


$$4x + 6y = 8$$

To solve for x , we must eliminate the y terms.


Multiply both sides of the top equation by 2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$4x + 6y = 8$$



To solve for x , we must eliminate the y terms.

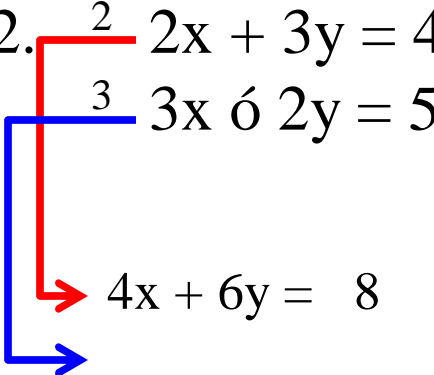
Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$4x + 6y = 8$$


To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$4x + 6y = 8$$

$$9x$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$\begin{array}{l} 4x + 6y = 8 \\ 9x - 6y = 15 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

12.
$$\begin{array}{l} 2x + 3y = 4 \\ 3x - 2y = 5 \end{array}$$

$$4x + 6y = 8$$

$$9x - 6y =$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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General Algebra 2 CWS #3 Unit 3 Solutions

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To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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$$4x + 6y = 8$$
$$9x - 6y = 15$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{l} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \xrightarrow{4} 4x + 6y = 8 \\ \xrightarrow{9} 9x - 6y = 15 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{l} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite. Add the equations.

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$$\begin{array}{r} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}} 2x + 3y = 4 \\ \overset{3}{\color{blue}} 3x - 2y = 5 \end{array} \\ \color{red}{\rightarrow} 4x + 6y = 8 \\ \color{blue}{\rightarrow} 9x - 6y = 15 \\ \hline 13x = 23 \end{array}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \end{array}$$

x

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \end{array}$$

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$$x = \frac{23}{13}$$

To solve for x , we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x .

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + 3y = 4 \\ \overset{3}{\color{blue}\rule{1.5cm}{0.4pt}} \quad 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{red}\rightarrow 4x + 6y = 8 \\ \color{blue}\rightarrow 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \\ \\ \mathbf{x = \frac{23}{13}} \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\ \hline \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \\ \\ \mathbf{x = \frac{23}{13}} \end{array}$$

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Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

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General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + 3y = 4 \\ \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{red}\rule{1.5cm}{0.4pt} \rightarrow 4x + 6y = 8 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 9x - 6y = 15 \\ \hline 13x = 23 \end{array} \end{array}$$

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Add the equations.

Now, solve for x.

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Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

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$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + 3y = 4 \\ \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{red}\rule{1.5cm}{0.4pt} \rightarrow 4x + 6y = 8 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 9x - 6y = 15 \end{array} \\ \hline 13x = 23 \end{array}$$

$\color{red}\rule{1.5cm}{0.4pt} \rightarrow 6x$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

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General Algebra 2 CWS #3 Unit 3 Solutions

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 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} 2x + 3y = 4 \\ \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \color{red}\rule{1.5cm}{0.4pt} \rightarrow 4x + 6y = 8 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 9x - 6y = 15 \end{array} \\
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 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

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General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + 3y = 4 \\ \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \quad 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{red}\rule{1.5cm}{0.4pt} \rightarrow 4x + 6y = 8 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 9x - 6y = 15 \\ \hline 13x = 23 \end{array} \end{array} \quad \begin{array}{l} \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\ \color{red}\rule{1.5cm}{0.4pt} \rightarrow 6x + 9y \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l} \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} 2x + 3y = 4 \\ \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 4x + 6y = 8 \\ \color{blue}\rule{1.5cm}{0.4pt} \rightarrow 9x - 6y = 15 \\ \hline 13x = 23 \end{array} \\
 \end{array}
 \qquad
 \begin{array}{l} \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\ \color{red}\rule{1.5cm}{0.4pt} \rightarrow 6x + 9y = \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\curvearrowright} 2x + 3y = 4 \\ \overset{3}{\color{red}\curvearrowright} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{blue}\curvearrowright \\ \color{blue}\curvearrowright \end{array} \end{array} \quad \begin{array}{l} \overset{3}{\color{red}\curvearrowright} \\ \color{red}\curvearrowright \end{array} \quad \begin{array}{l} 4x + 6y = 8 \\ 9x - 6y = 15 \\ \hline 13x = 23 \\ \\ \mathbf{x = \frac{23}{13}} \end{array} \quad \begin{array}{l} 6x + 9y = 12 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r} 12. \quad \begin{array}{l} \overset{2}{\color{red}\curvearrowright} 2x + 3y = 4 \\ \overset{3}{\color{red}\curvearrowright} 3x - 2y = 5 \end{array} \\ \begin{array}{l} \color{blue}\curvearrowright \\ \color{blue}\curvearrowright \end{array} \end{array} \quad \begin{array}{l} \overset{3}{\color{red}\curvearrowright} \\ \color{red}\curvearrowright \end{array} \quad \begin{array}{l} 4x + 6y = 8 \\ 9x - 6y = 15 \\ \hline 13x = 23 \\ \\ \mathbf{x = \frac{23}{13}} \end{array} \quad \begin{array}{l} 6x + 9y = 12 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \\ \hline 13x = 23 \end{array} \\
 \end{array}
 \qquad
 \begin{array}{l}
 \xrightarrow{3} \\
 \xrightarrow{-2} \\
 \hline
 6x + 9y = 12
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite.

Add the equations.

Now, solve for x.

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Multiply both sides of the top equation by 3.

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General Algebra 2 CWS #3 Unit 3 Solutions

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 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x \end{array}
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Add the equations.

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 \begin{array}{r}
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Add the equations.

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 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y \end{array}
 \end{array}$$

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 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array}
 \end{array}$$

$$x = \frac{23}{13}$$

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Notice that the y terms are opposite. Add the equations.

Now, solve for x.

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 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \\ \hline 13x = 23 \end{array}
 \end{array}
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 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array}
 \end{array}$$

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Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

General Algebra 2 CWS #3 Unit 3 Solutions

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 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \\ \hline 13x = 23 \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
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 \end{array}$$

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Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

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 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\
 \hline
 13x = 23
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array} \\
 \hline
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l}
 \overset{2}{\color{red}\rule{1.5cm}{0.4pt}} \quad 2x + 3y = 4 \\
 \overset{3}{\color{blue}\rule{1.5cm}{0.4pt}} \quad 3x - 2y = 5 \\
 \hline
 \color{red}{\rightarrow} \quad 4x + 6y = 8 \\
 \color{blue}{\rightarrow} \quad 9x - 6y = 15 \\
 \hline
 13x = 23
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{\color{red}\rule{1.5cm}{0.4pt}} \\
 \overset{-2}{\color{blue}\rule{1.5cm}{0.4pt}} \\
 \hline
 \color{red}{\rightarrow} \quad 6x + 9y = 12 \\
 \color{blue}{\rightarrow} \quad -6x + 4y = -10 \\
 \hline
 13y
 \end{array}
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\
 \hline
 13x = 23
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array} \\
 \hline
 13y =
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\
 \hline
 13x = 23
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array} \\
 \hline
 13y = 2
 \end{array}$$

$$x = \frac{23}{13}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

To solve for y, we must eliminate the x terms.

Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

Notice that the x terms are opposite.

Add the equations.

General Algebra 2 CWS #3 Unit 3 Solutions

Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \\ \hline 13x = 23 \end{array} \\
 \\
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \\ \hline 13y = 2 \end{array}
 \end{array}$$

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To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite. Add the equations.

Now, solve for x.

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Multiply both sides of the top equation by 3.

Multiply both sides of the bottom equation by -2.

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Add the equations.

Now, solve for y.

General Algebra 2 CWS #3 Unit 3 Solutions

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 12. \quad \begin{array}{l} \xrightarrow{2} 2x + 3y = 4 \\ \xrightarrow{3} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \end{array} \\
 \hline
 13x = 23 \\
 \\
 \mathbf{x = \frac{23}{13}}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 2x + 3y = 4 \\ \xrightarrow{-2} 3x - 2y = 5 \end{array} \\
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \end{array} \\
 \hline
 13y = 2 \\
 \\
 \mathbf{y}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite. Add the equations.

Now, solve for x.

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Solve each of the following systems of equations using the **multiplication-addition method**.

$$\begin{array}{r}
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 \overset{3}{\color{blue}\curvearrowright} 3x + 2y = 5 \\
 \hline
 \color{red}{\rightarrow} 4x + 6y = 8 \\
 \color{blue}{\rightarrow} 9x + 6y = 15 \\
 \hline
 13x = 23 \\
 \\
 \mathbf{x = \frac{23}{13}}
 \end{array}
 \qquad
 \begin{array}{l}
 \overset{3}{\color{red}\curvearrowright} \\
 \overset{-2}{\color{blue}\curvearrowright} \\
 \hline
 \color{red}{\rightarrow} 6x + 9y = 12 \\
 \color{blue}{\rightarrow} -6x + 4y = -10 \\
 \hline
 13y = 2 \\
 \\
 \mathbf{y =}
 \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

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Multiply both sides of the top equation by 3.

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 \begin{array}{l} \xrightarrow{2} 4x + 6y = 8 \\ \xrightarrow{3} 9x - 6y = 15 \\ \hline 13x = 23 \\ \\ \mathbf{x = \frac{23}{13}} \end{array}
 \end{array}
 \qquad
 \begin{array}{r}
 \begin{array}{l} \xrightarrow{3} 6x + 9y = 12 \\ \xrightarrow{-2} -6x + 4y = -10 \\ \hline 13y = 2 \\ \\ \mathbf{y = \frac{2}{13}} \end{array}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

Multiply both sides of the bottom equation by 3.

Notice that the y terms are opposite. Add the equations.

Now, solve for x.

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 \end{array}
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 \end{array}$$

$$\begin{array}{l}
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 \mathbf{y = \frac{2}{13}}
 \end{array}$$

To solve for x, we must eliminate the y terms.

Multiply both sides of the top equation by 2.

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Notice that the y terms are opposite. Add the equations.

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 \hline
 \end{array}$$

$$\begin{array}{l}
 x = \frac{23}{13} \\
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 \end{array}$$

Good luck on your homework !!

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