Algebra II Lesson #4 Unit 2

Class Worksheet #4

For Worksheet #5

Solving Systems of Two Linear Equations With Two Variables

Solving Systems of Two Linear Equations With Two Variables

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Case 2 - <u>Inconsistent System</u>:

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Case 2 - <u>Inconsistent System</u>: The two equations represent two parallel lines. This type of system has no solution since there are no ordered pairs that make both equations true.

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Case 3 - <u>Independent System</u>:

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Case 3 - <u>Independent System</u>: The two equations represent two non-parallel lines.

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Case 3 - <u>Independent System</u>: The two equations represent two non-parallel lines. This type of system has exactly one solution since two non-parallel lines in a plane intersect at exactly one point.

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The Graphing Method: Simply graph both equations.

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The Graphing Method: Simply graph both equations. The solution of the system is the ordered pair corresponding to the point where the two lines intersect. Good luck.

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Solve the following systems of equations using the graphing method.

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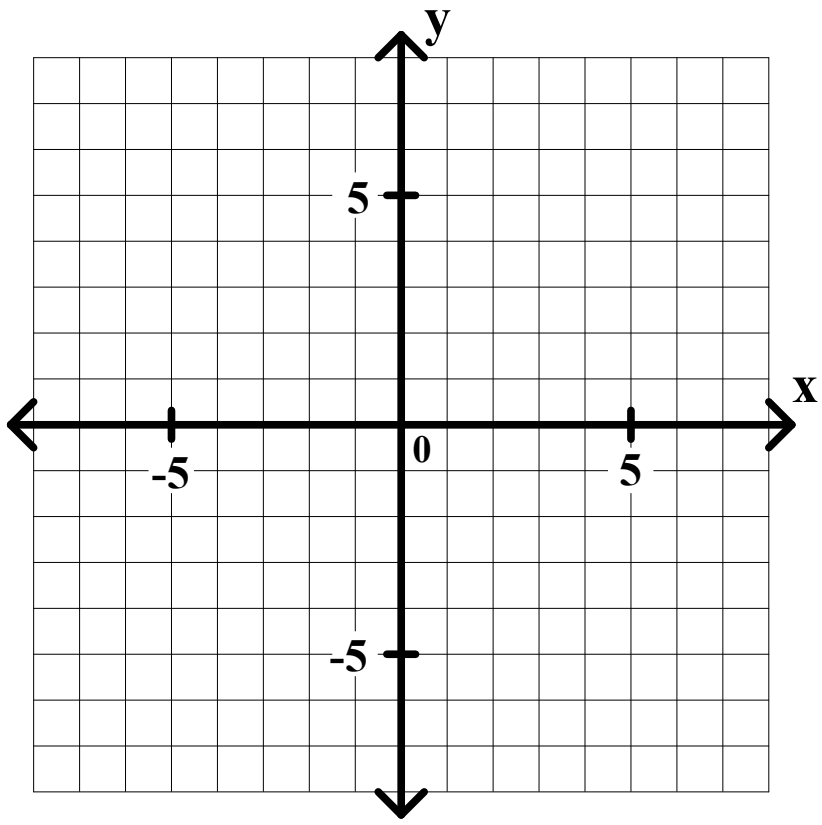

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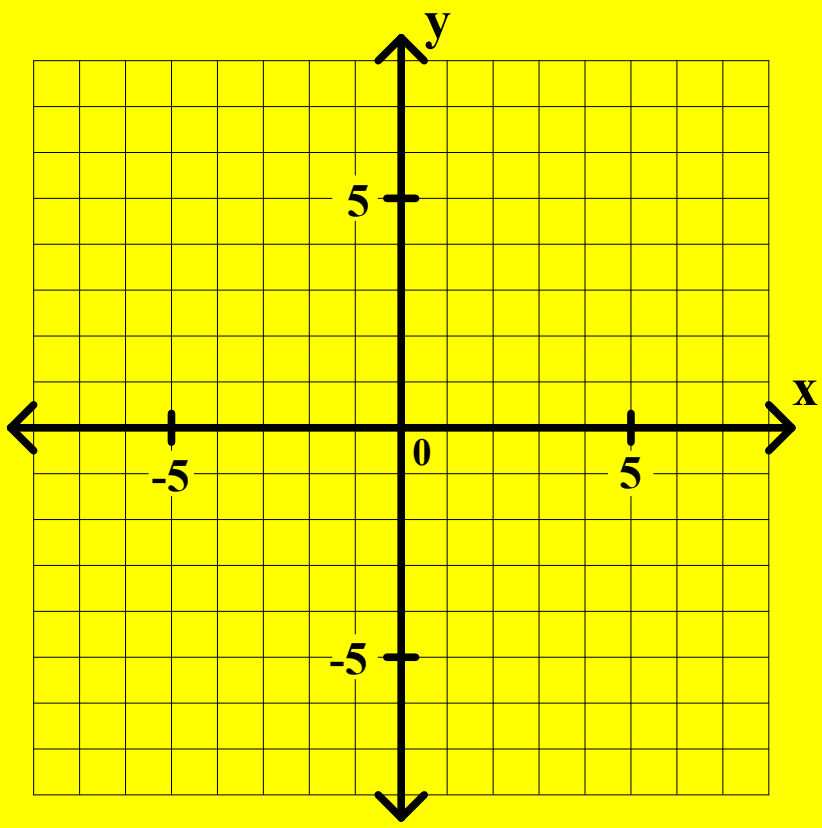

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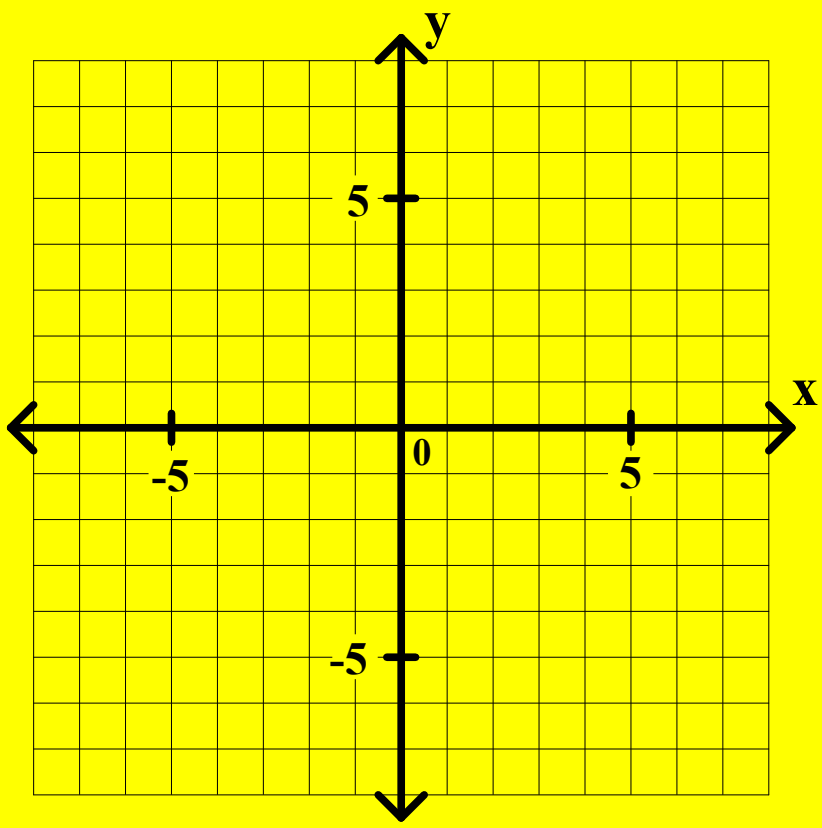

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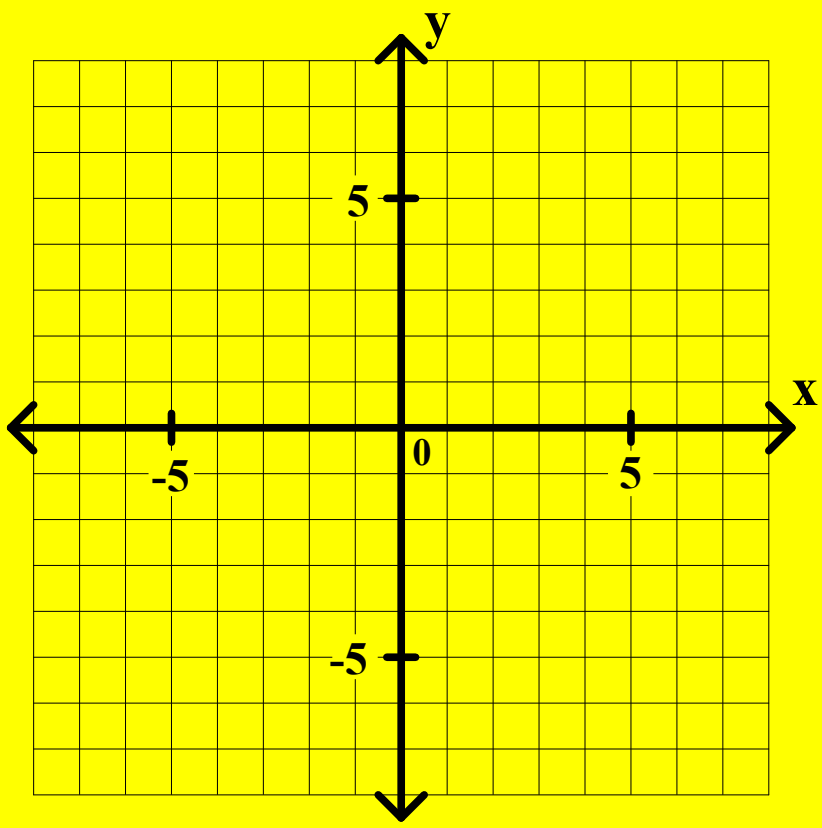

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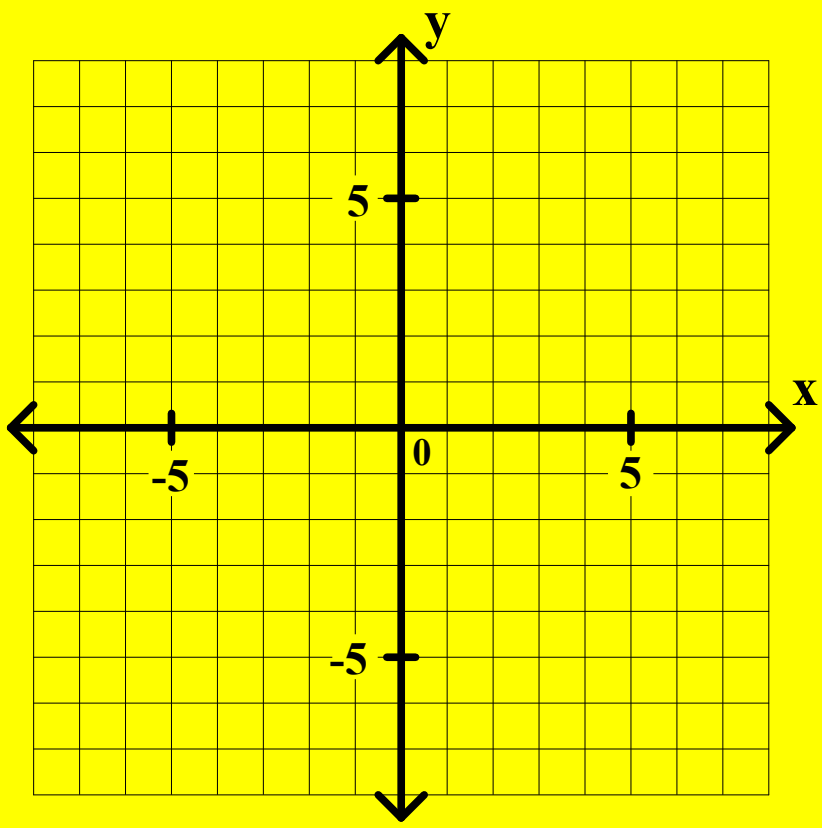

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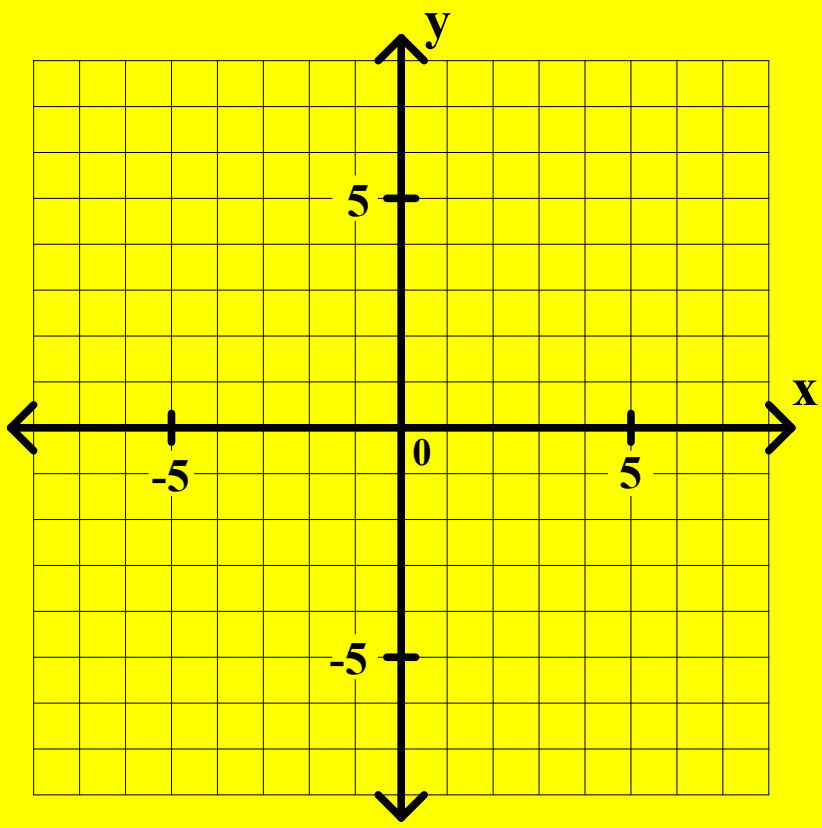

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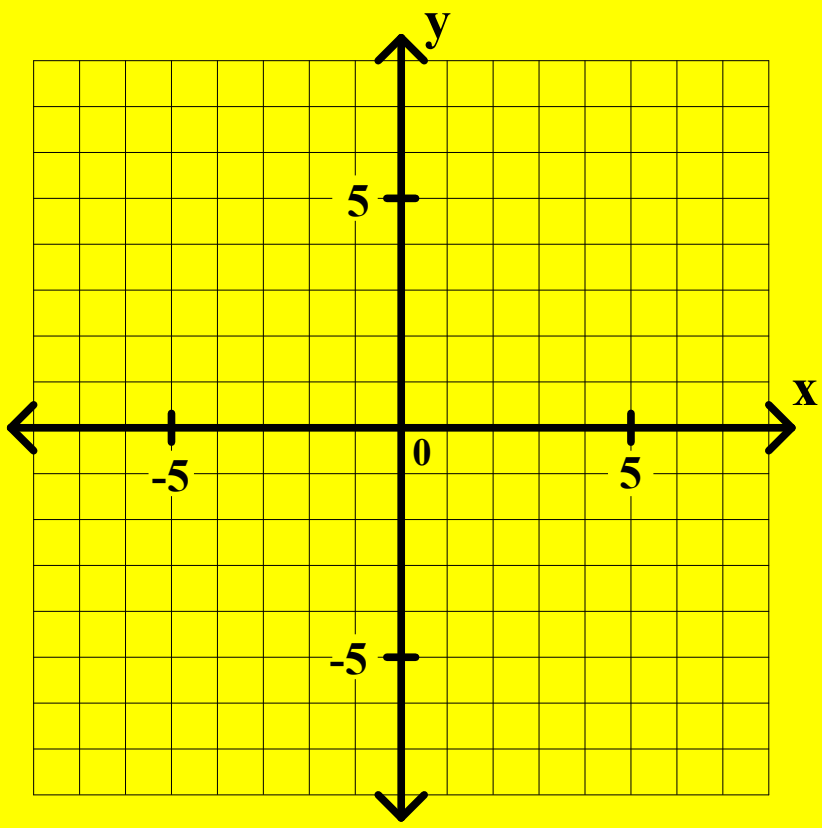

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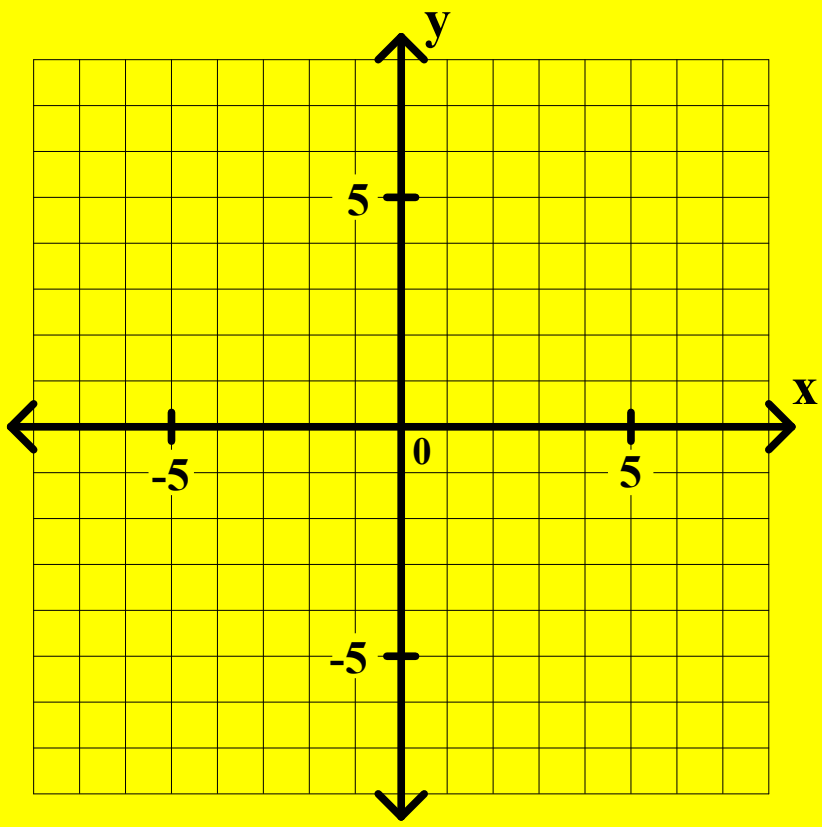

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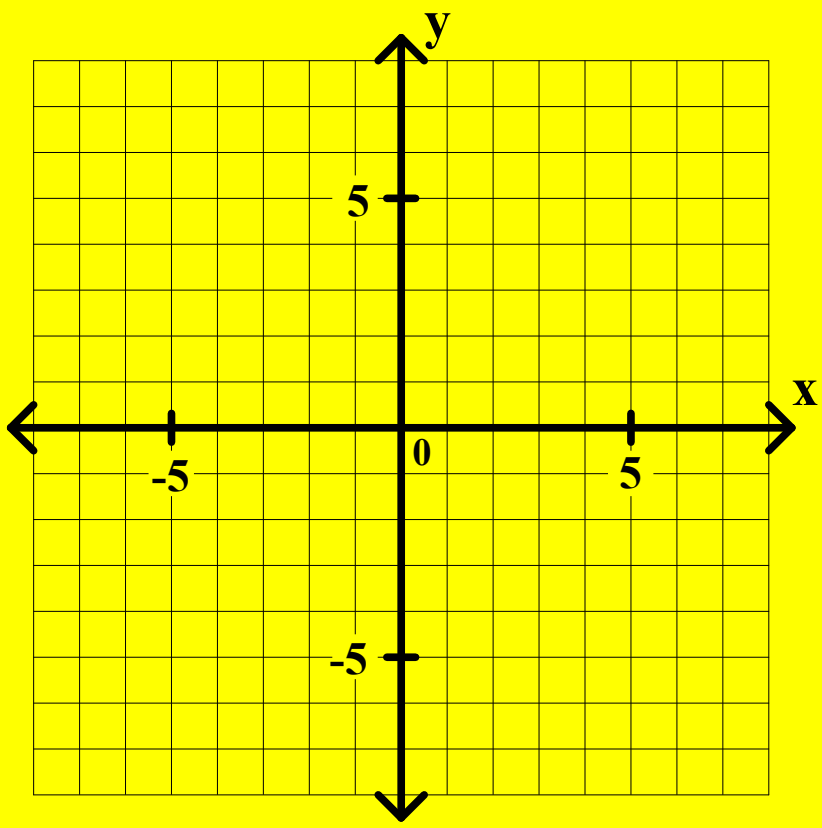

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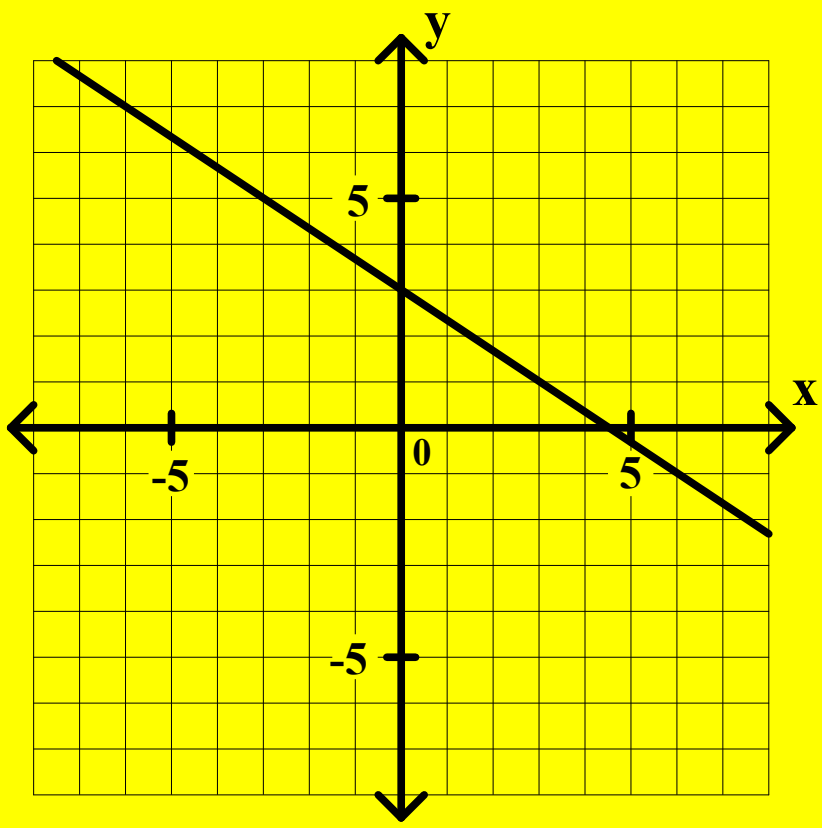

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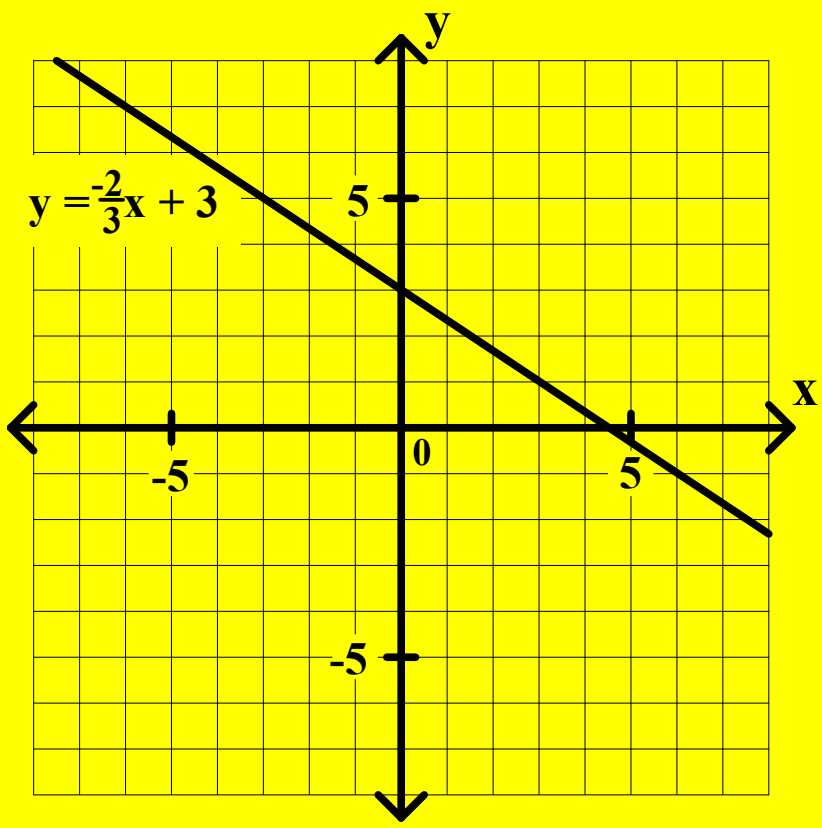

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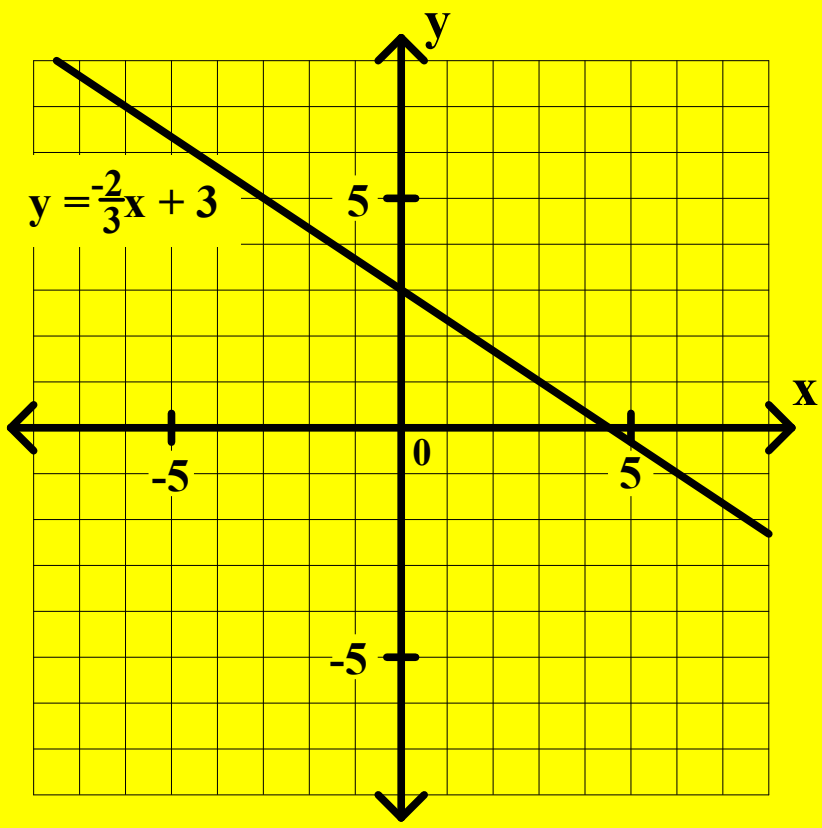

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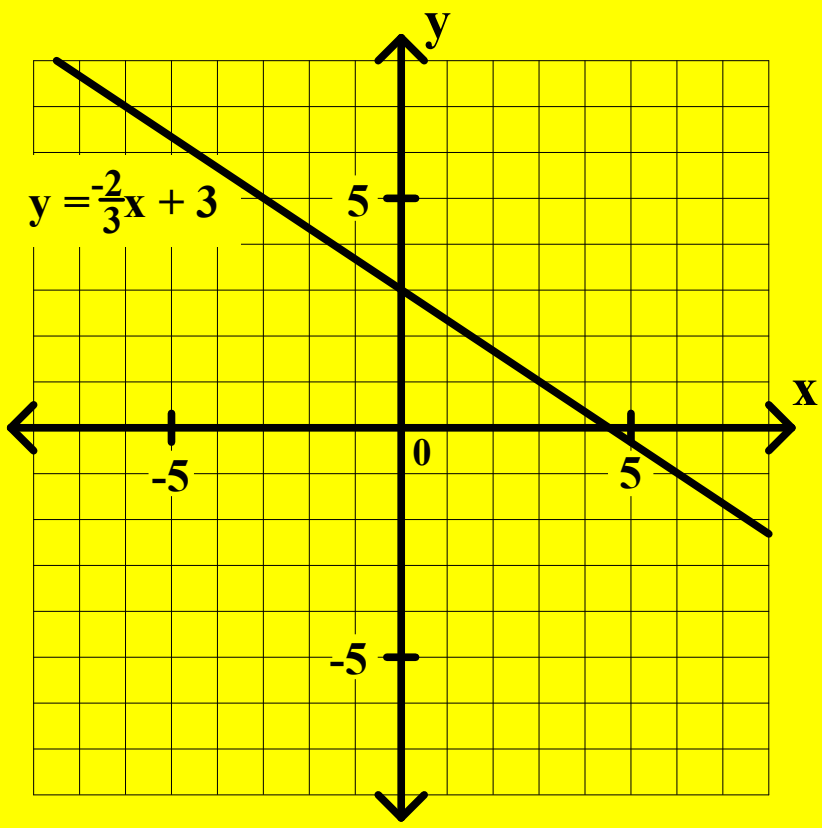

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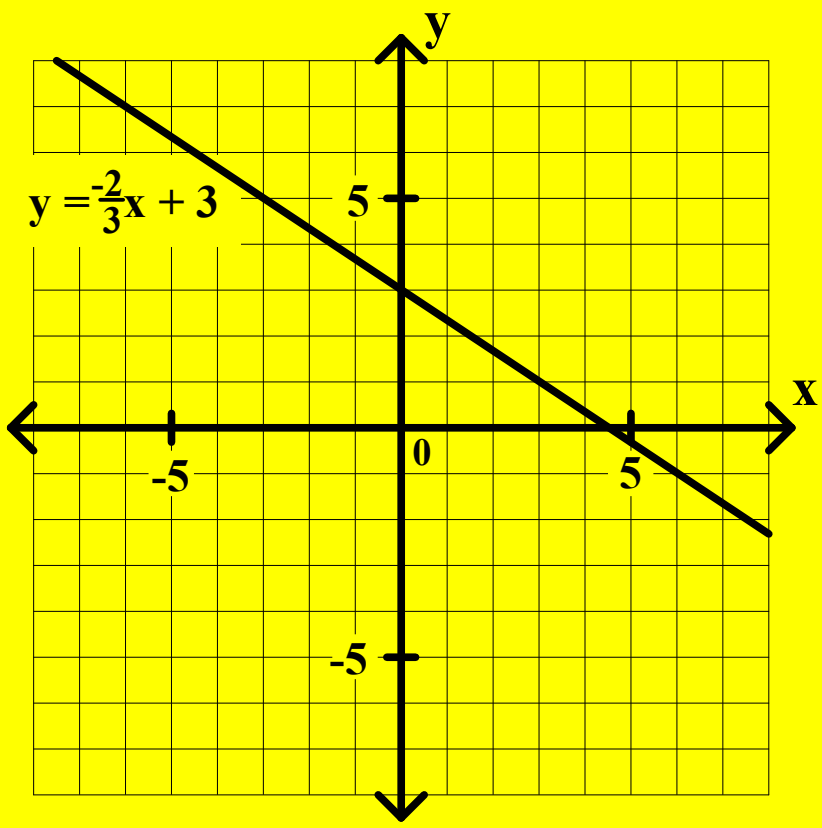

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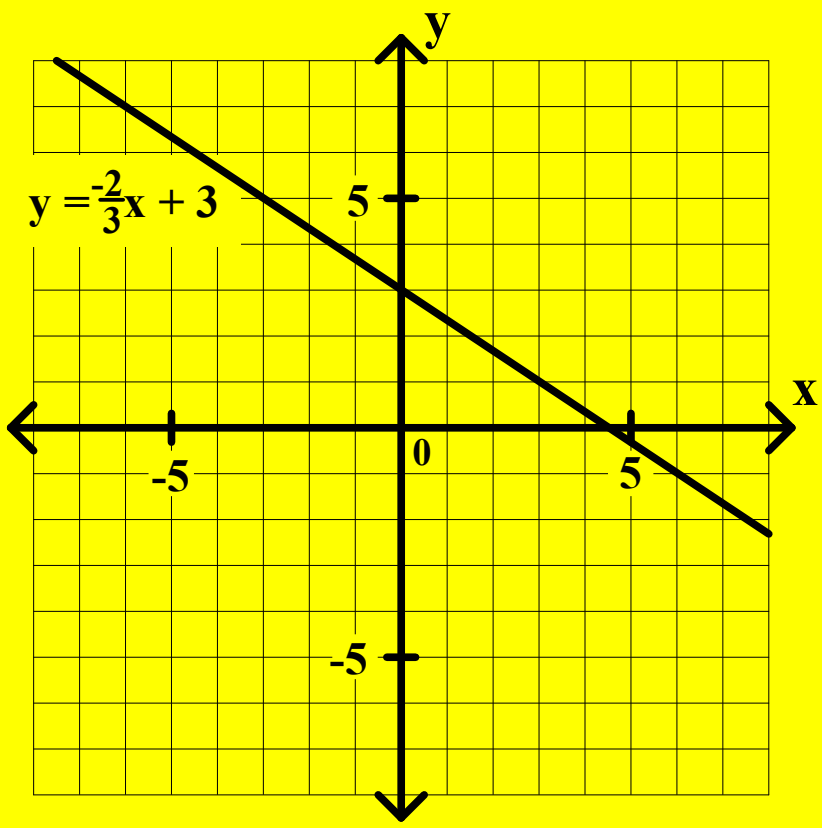

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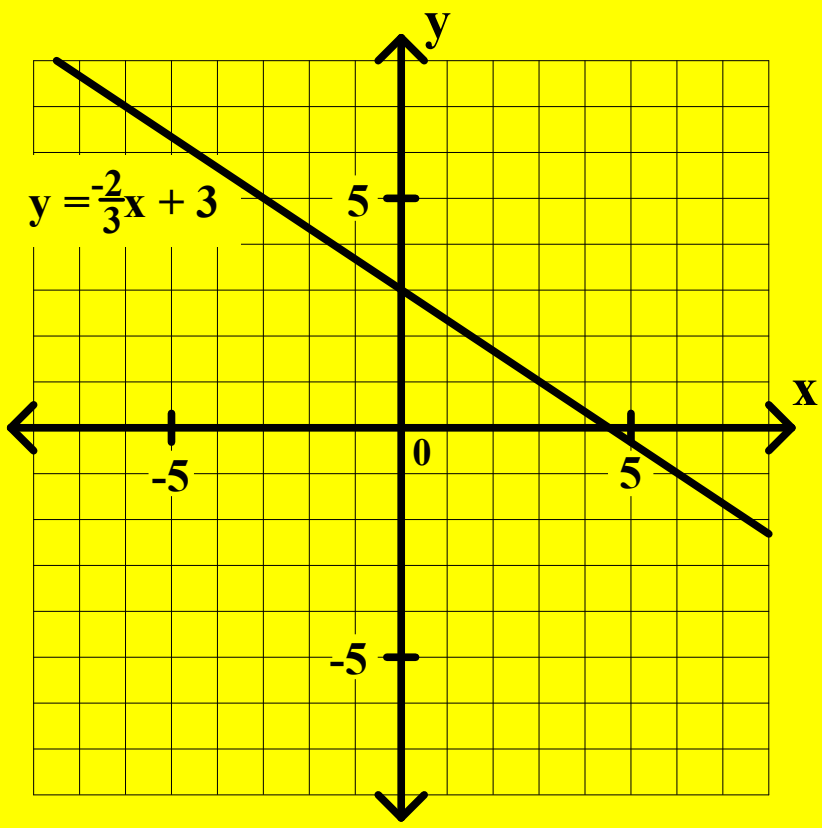

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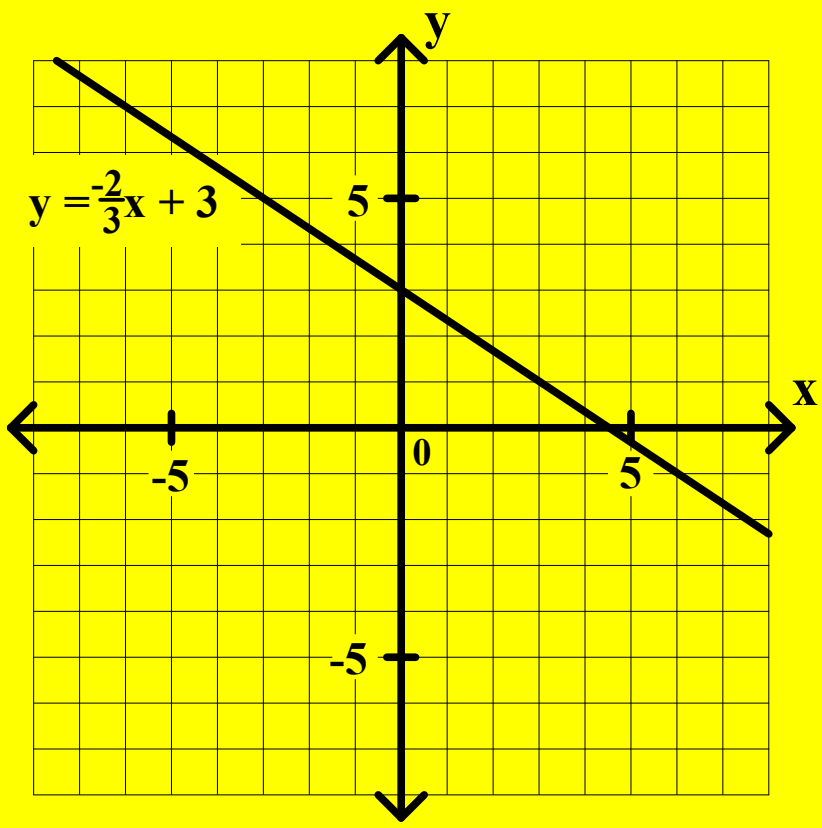

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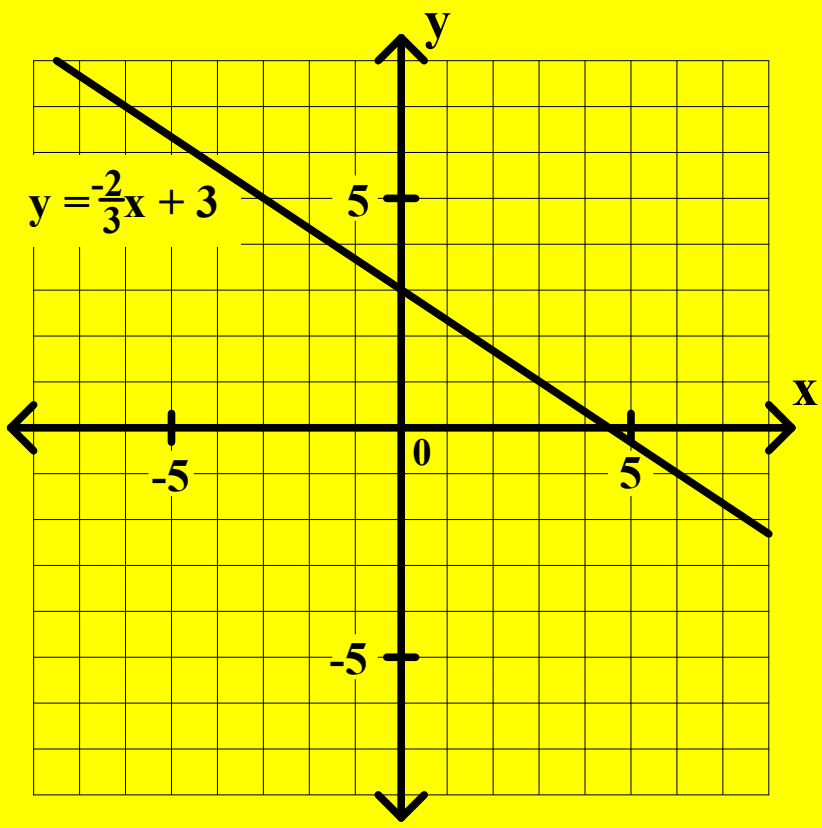

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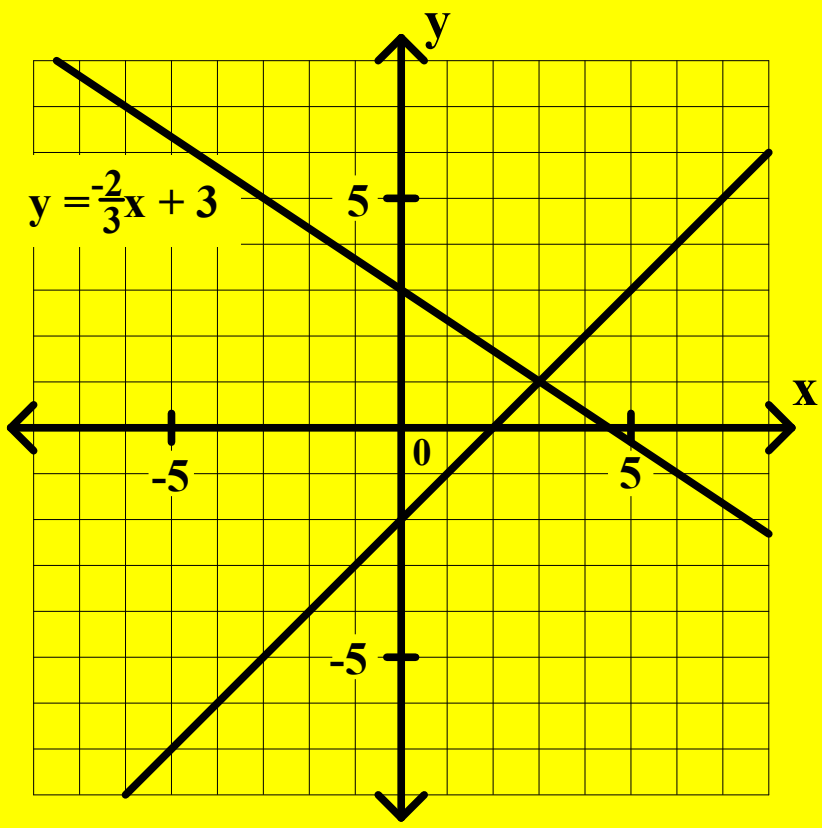

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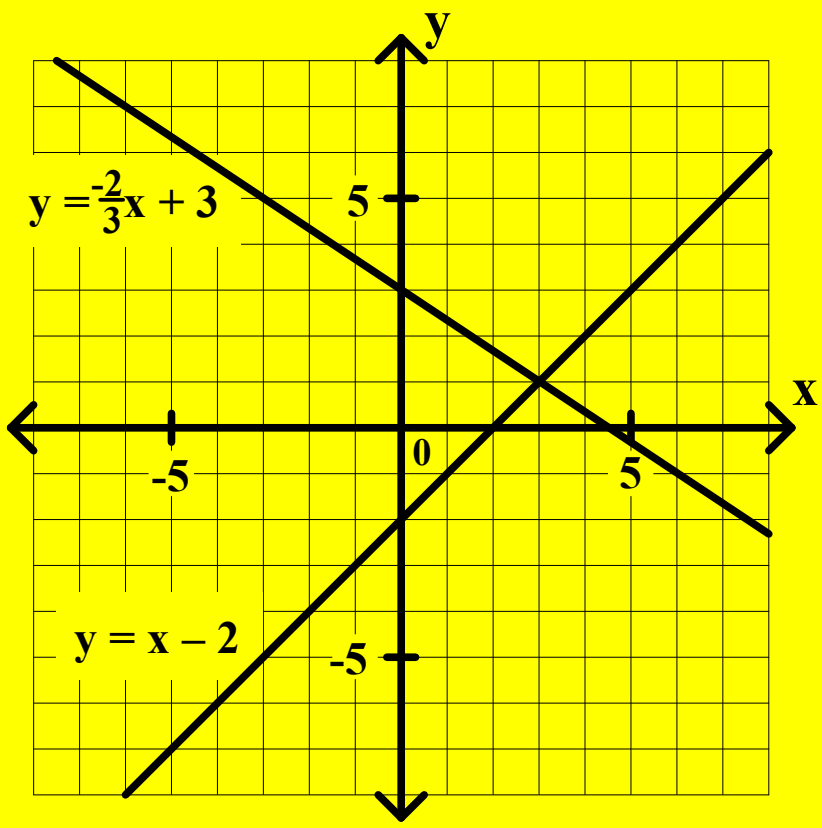

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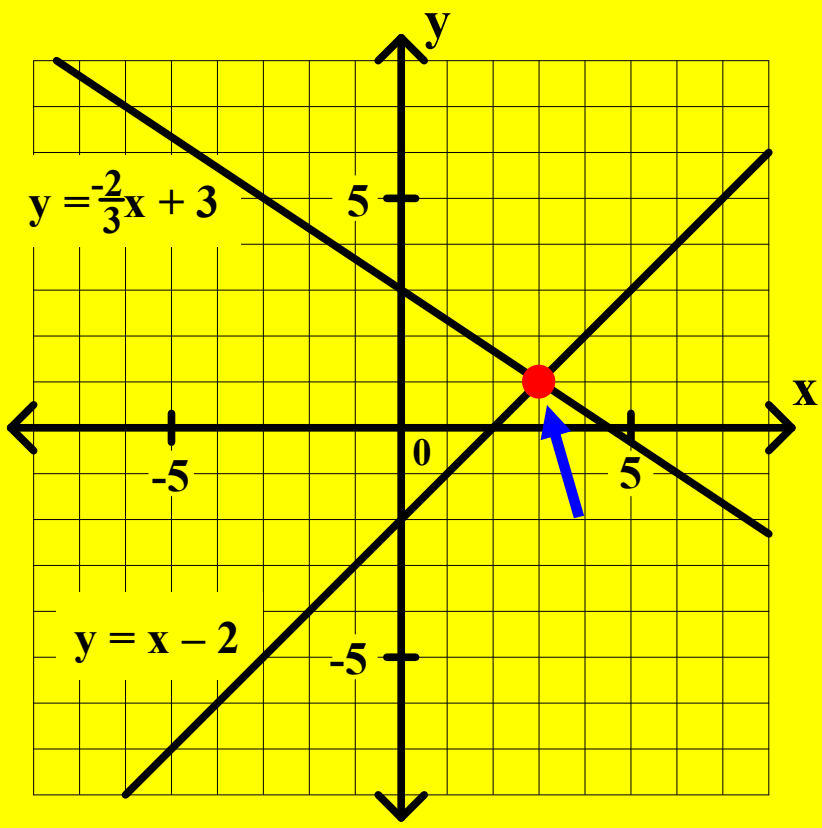

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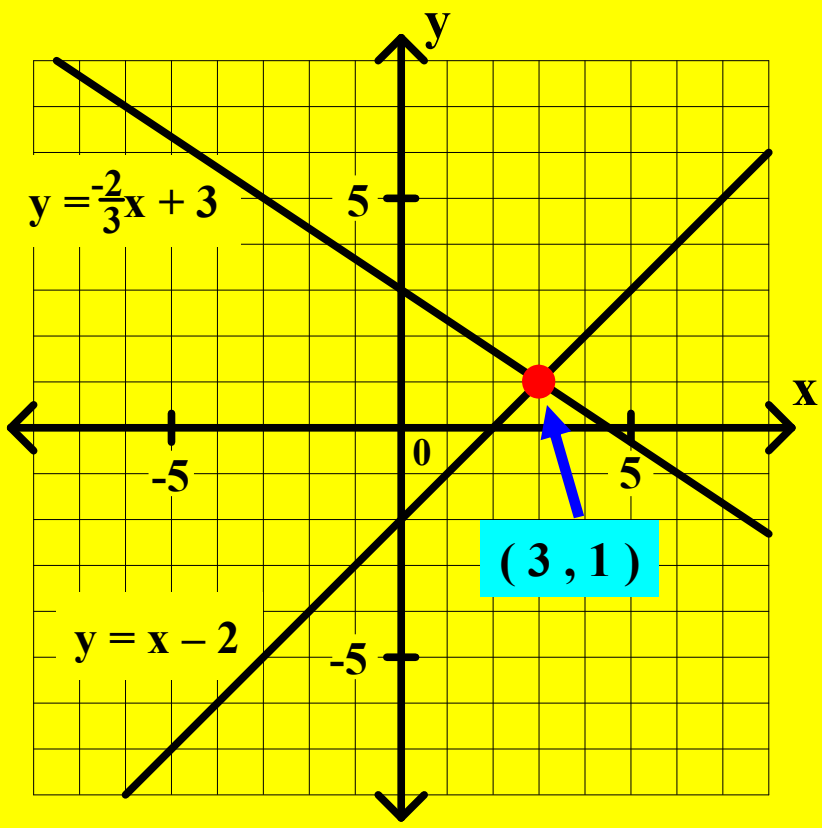

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1. $2x + 3y = 9$ $\quad x = \underline{\quad 3 \quad}$

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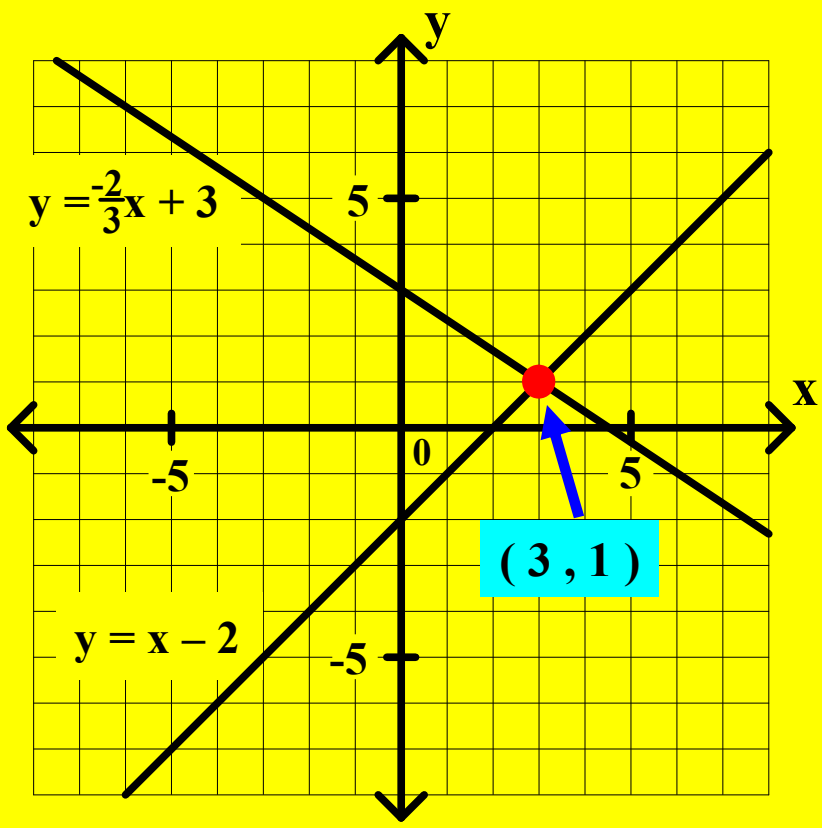

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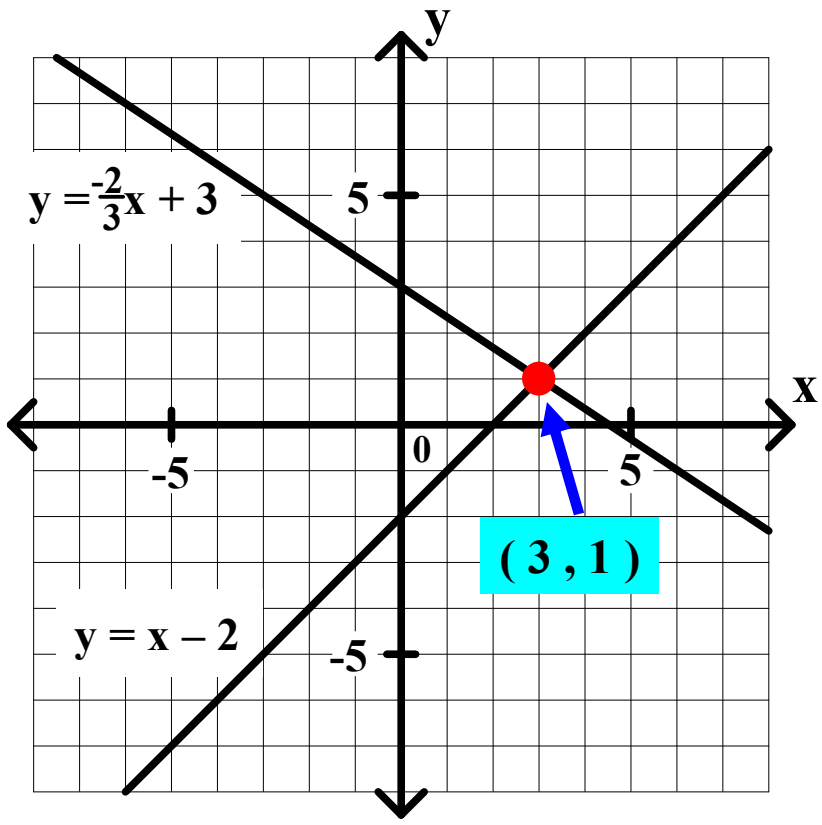

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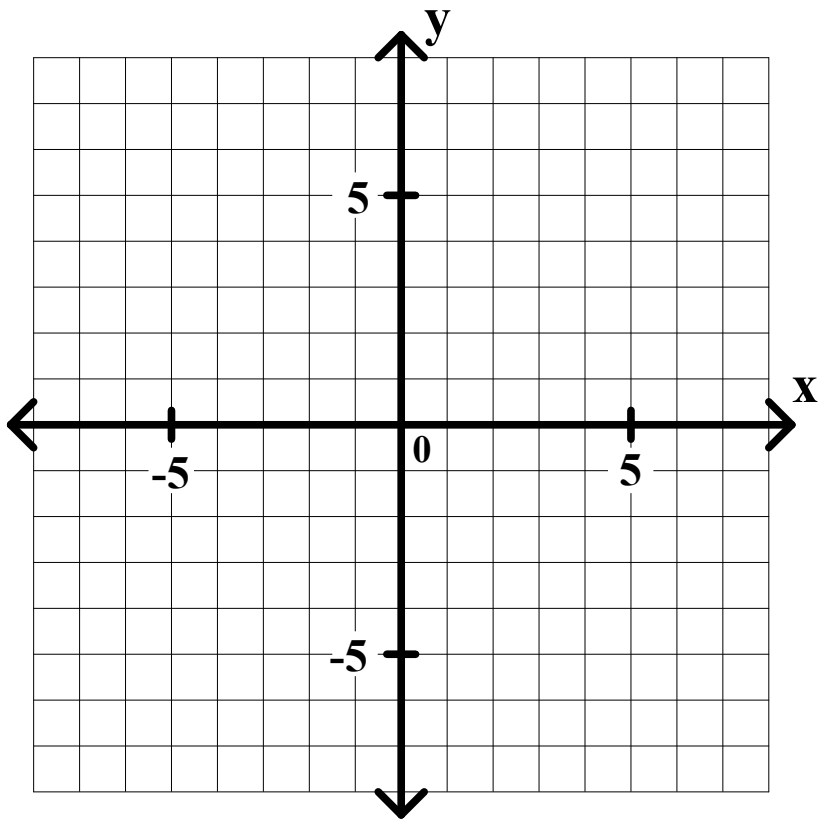
2. $x - 2y = -8$ $x =$ _____

$x + y = -2$ $y =$ _____



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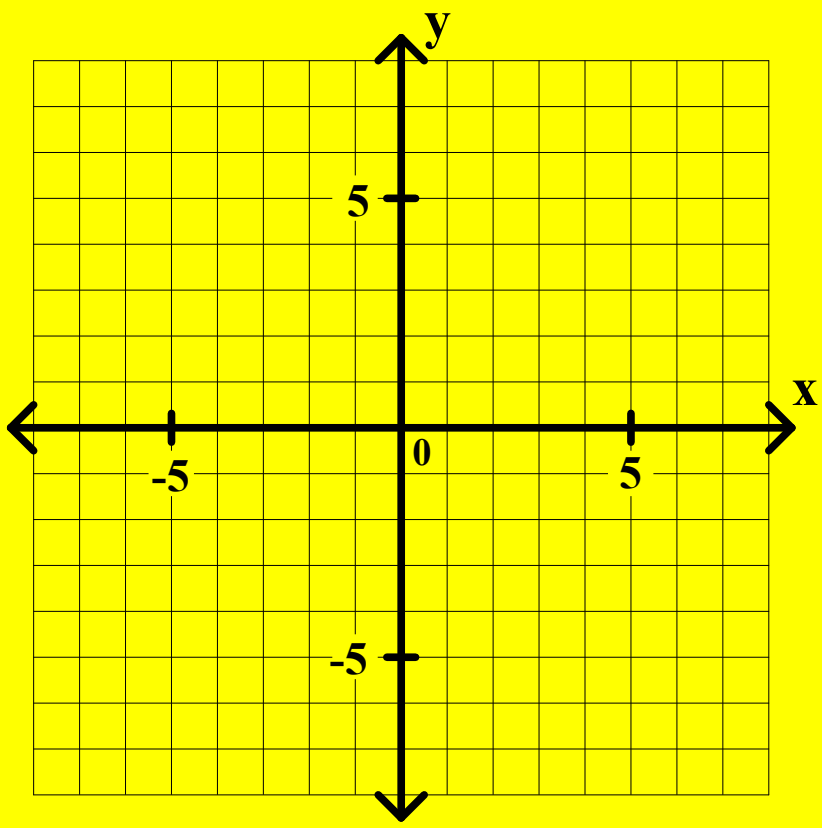


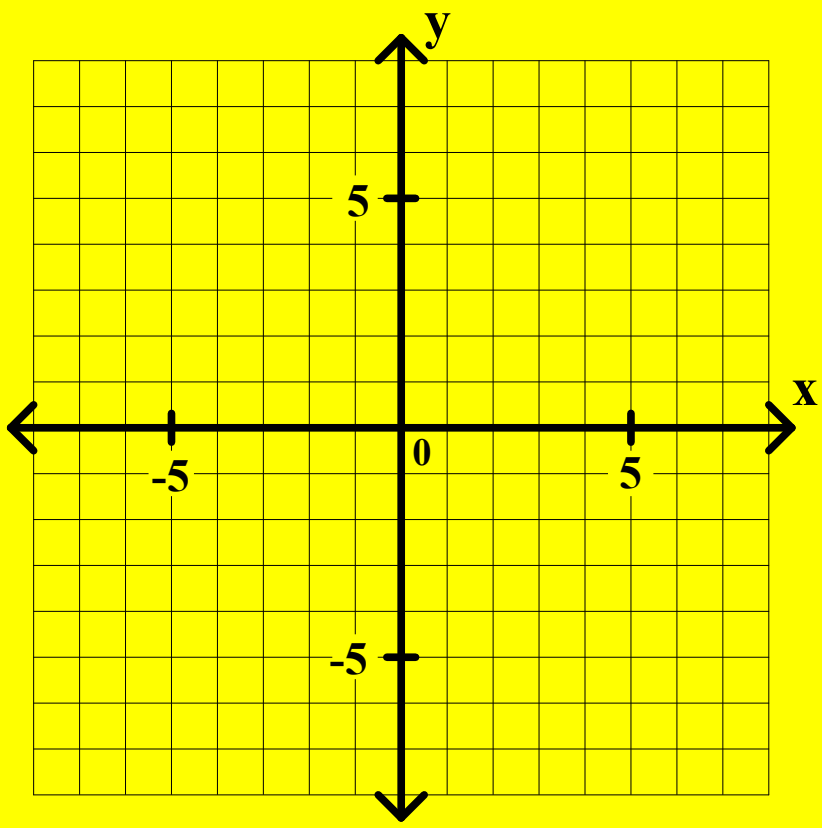
Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the graphing method.

2. $x - 2y = -8$ $\quad x =$ _____

$x + y = -2$ $\quad y =$ _____

$x - 2y = -8$



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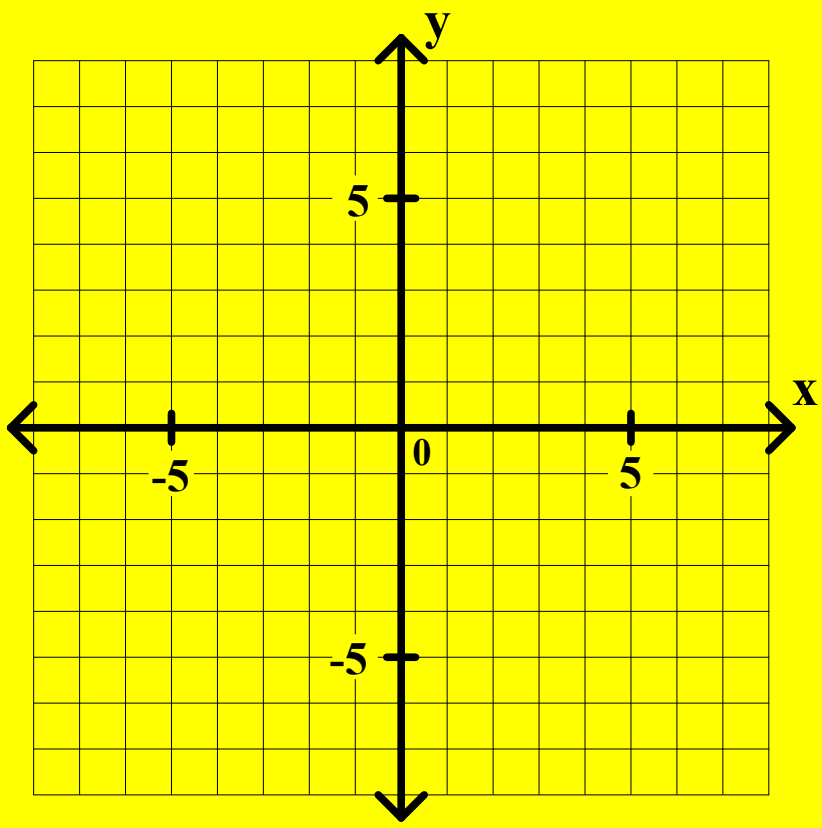
$x - 2y = -8$

$-2y =$



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$x - 2y = -8$

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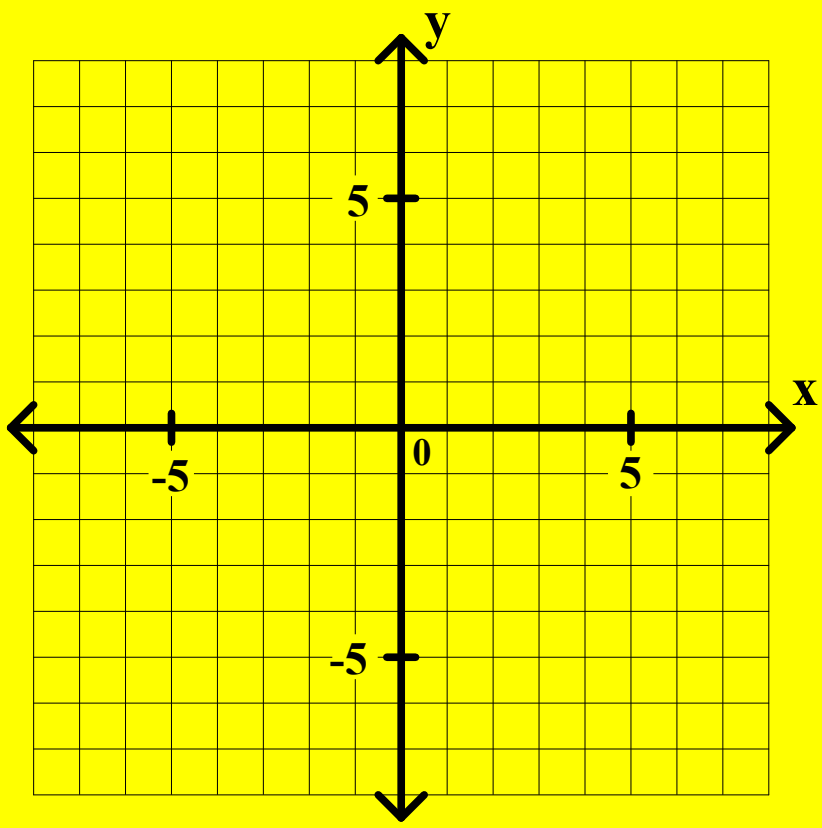


Algebra II Class Worksheet #4 Unit 2

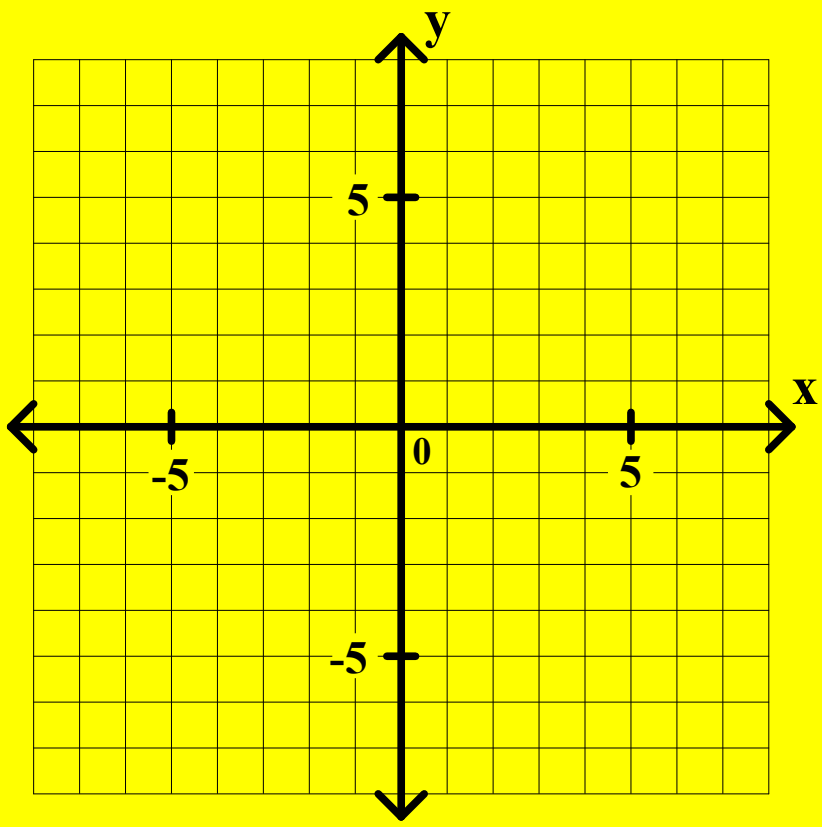
Solve the following systems of equations using the graphing method.

2. $x - 2y = -8$ $\quad x =$ _____

$x + y = -2$ $\quad y =$ _____

$x - 2y = -8$

$-2y = -x - 8$



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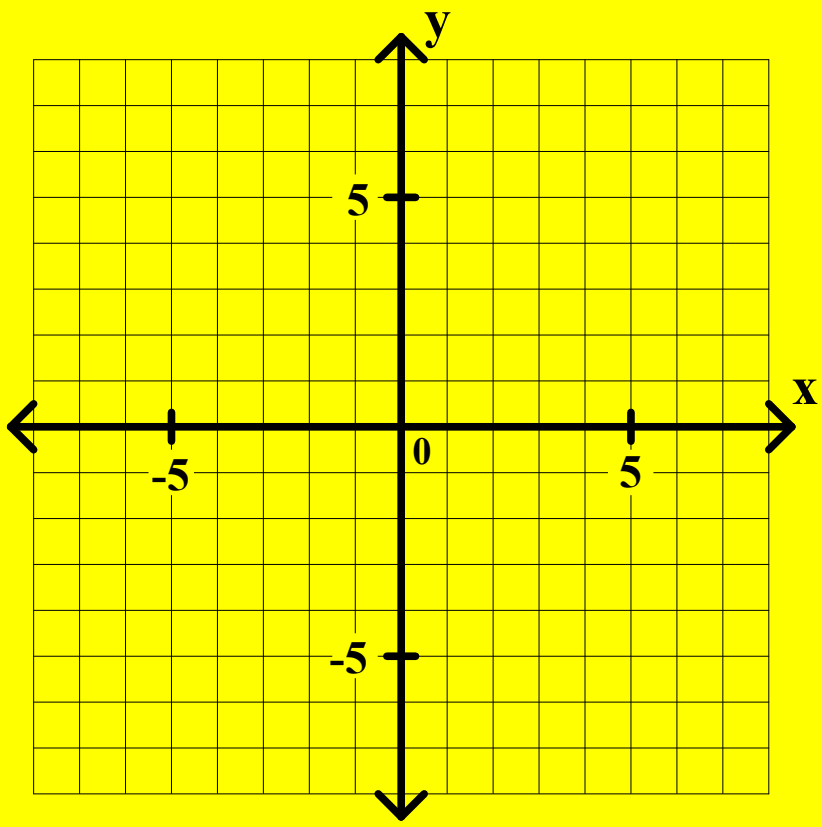
$x - 2y = -8$

$-2y = -x - 8$

$y =$



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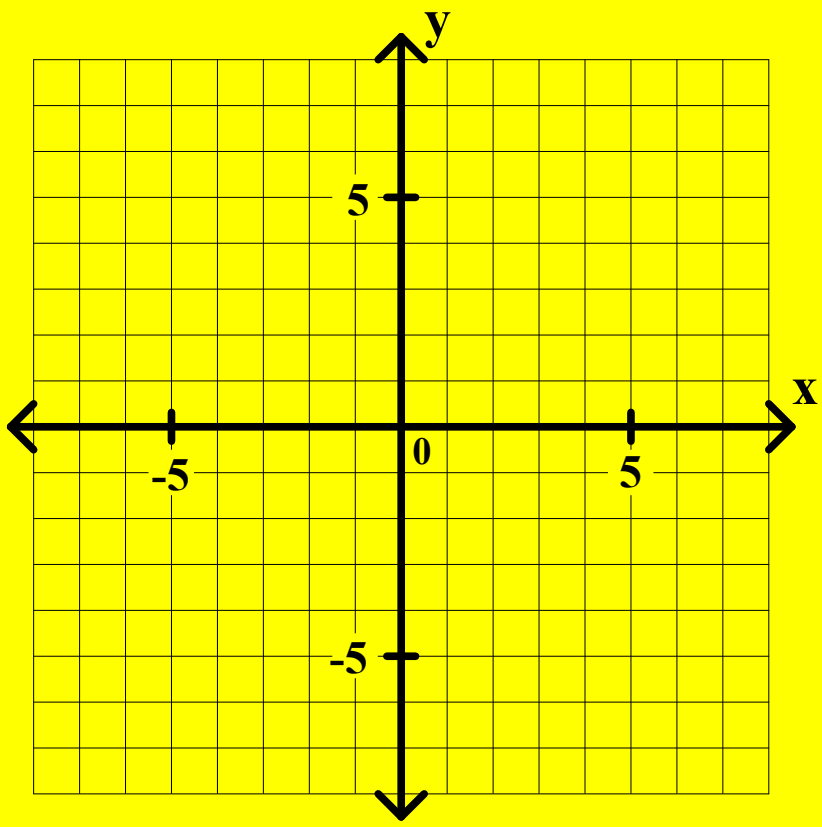
$x - 2y = -8$

$-2y = -x - 8$

$y = \frac{1}{2}x$



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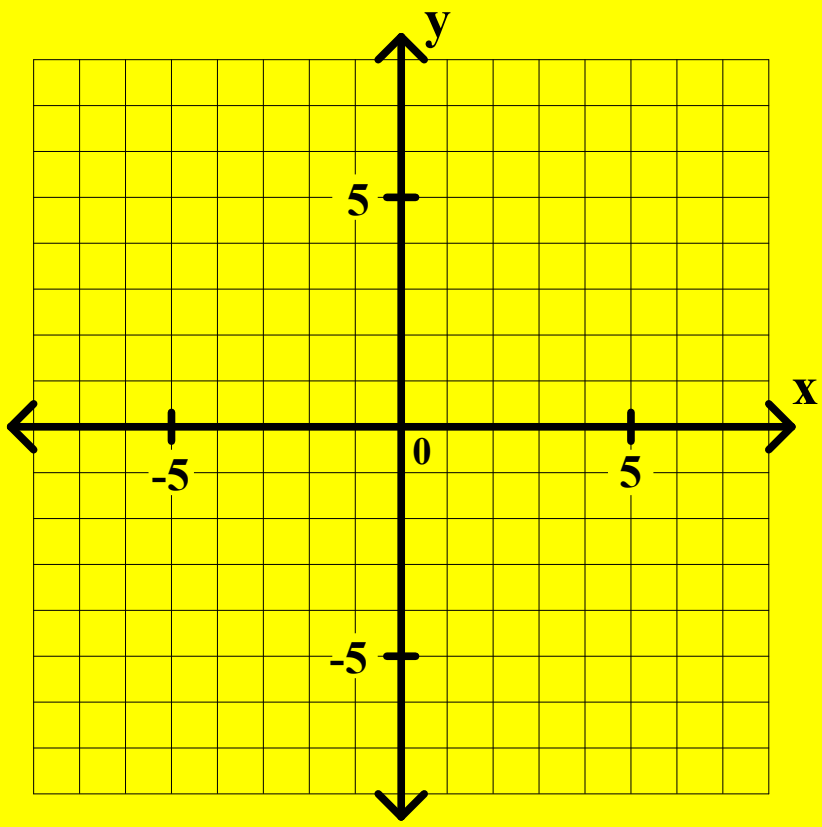
$x - 2y = -8$

$-2y = -x - 8$

$y = \frac{1}{2}x + 4$



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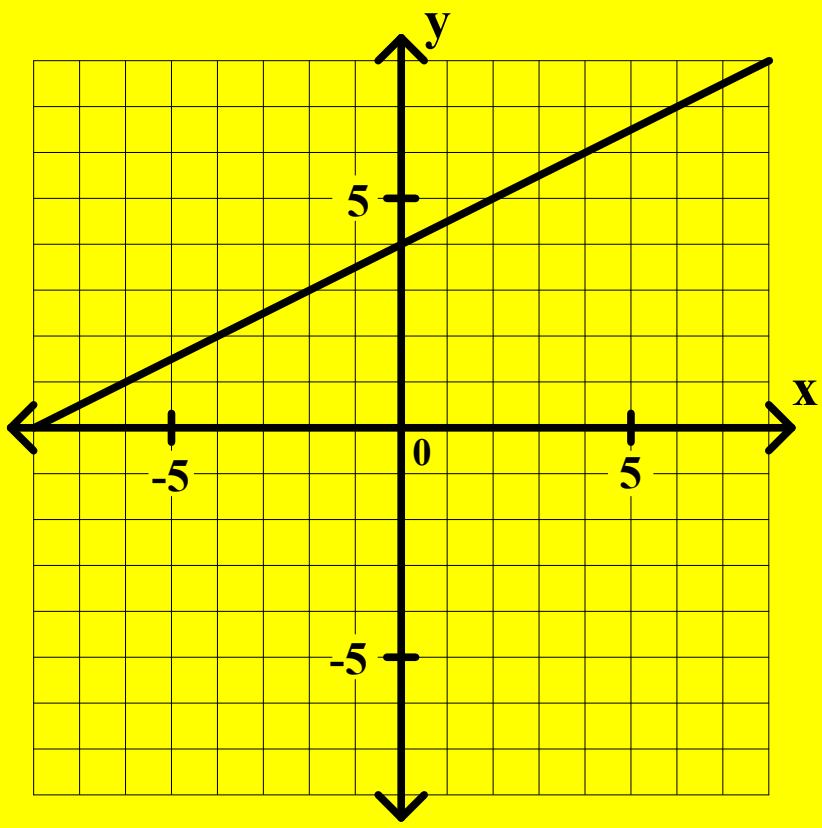

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$-2y = -x - 8$

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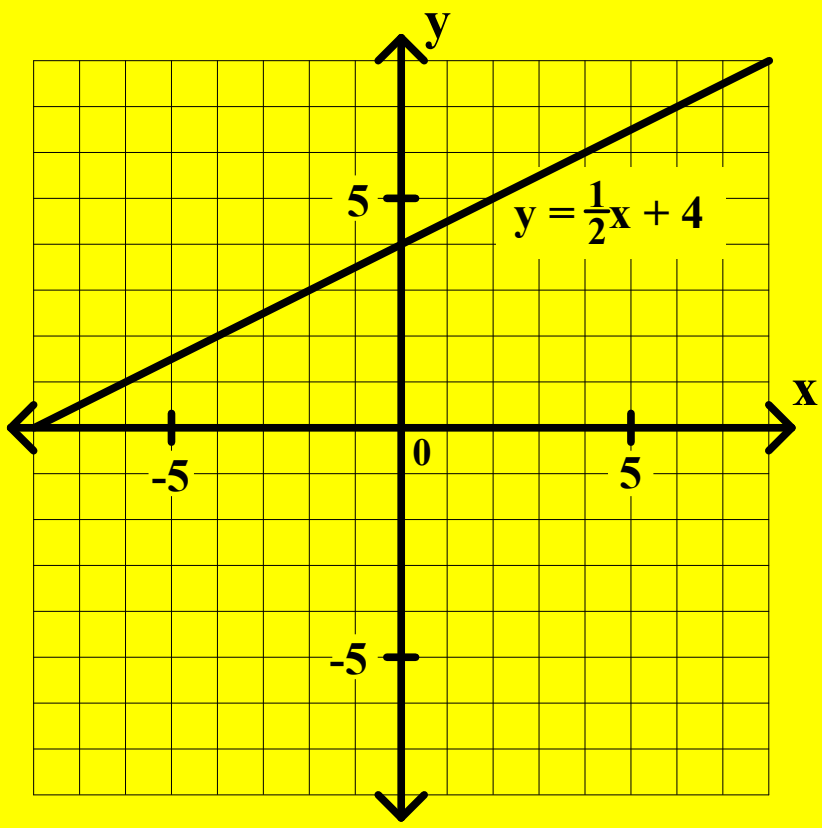

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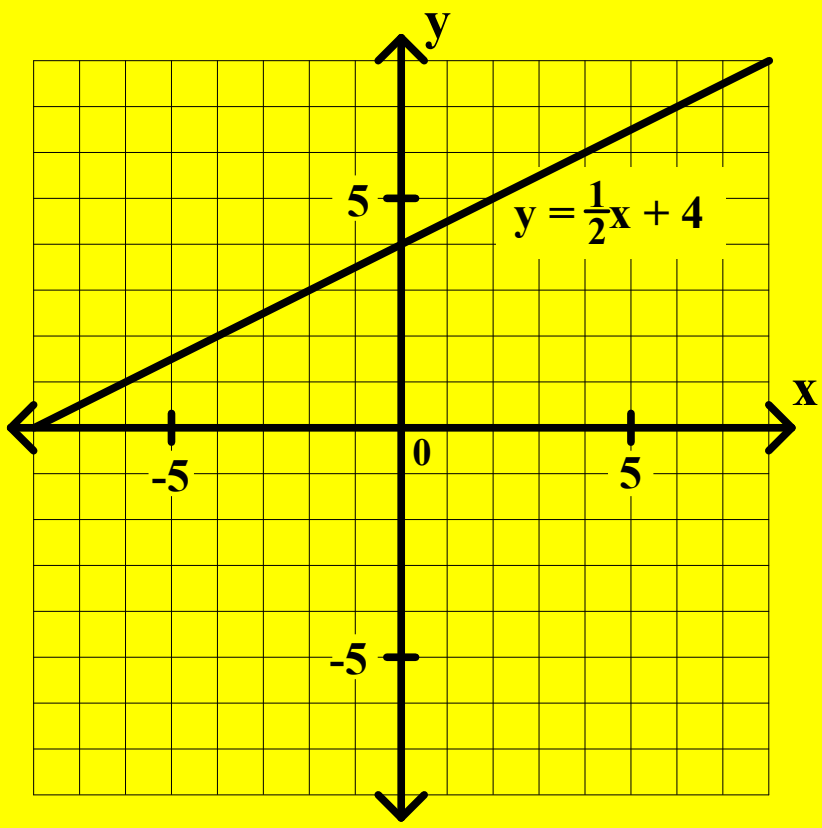
$x - 2y = -8$ $\qquad x + y = -2$

$-2y = -x - 8$

$y = \frac{1}{2}x + 4$



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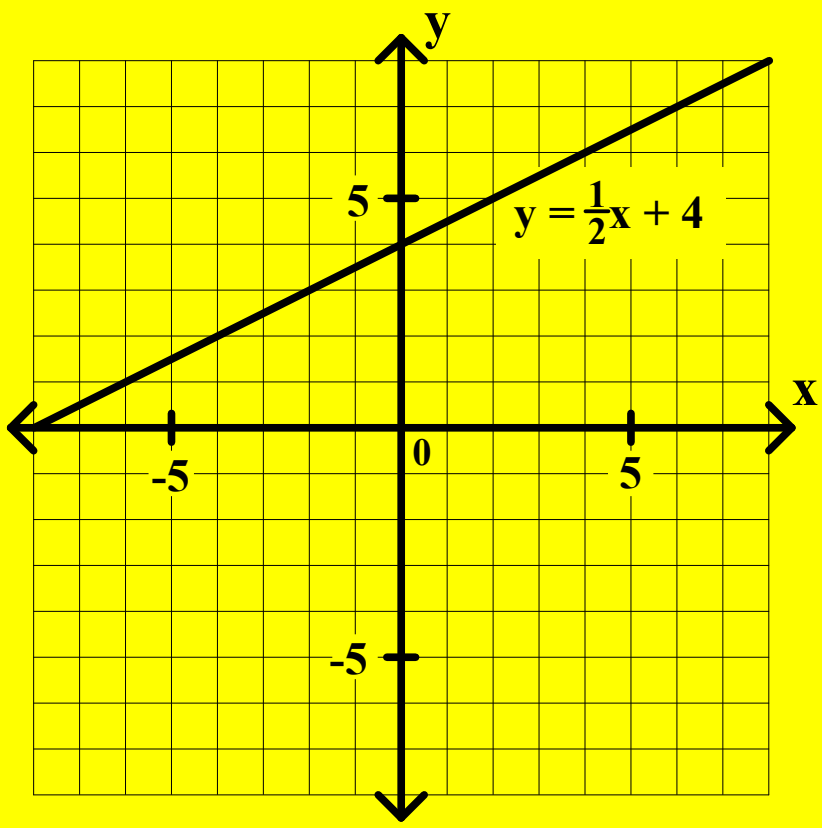
$-2y = -x - 8$ $\qquad y =$

$y = \frac{1}{2}x + 4$



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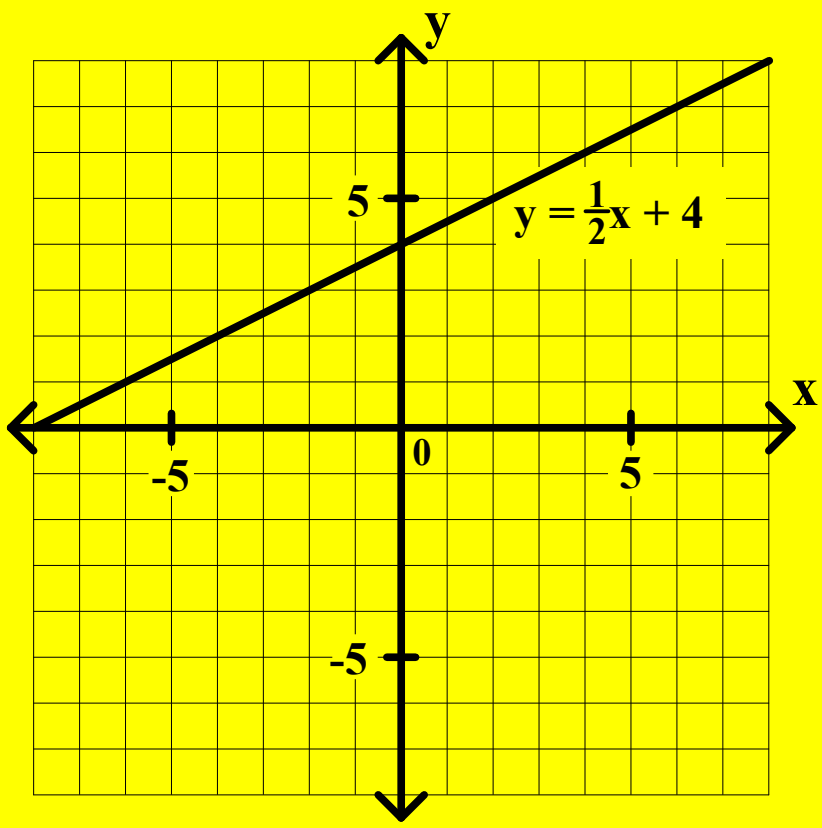
$-2y = -x - 8$ $\qquad y = -x$

$y = \frac{1}{2}x + 4$



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Solve the following systems of equations using the graphing method.

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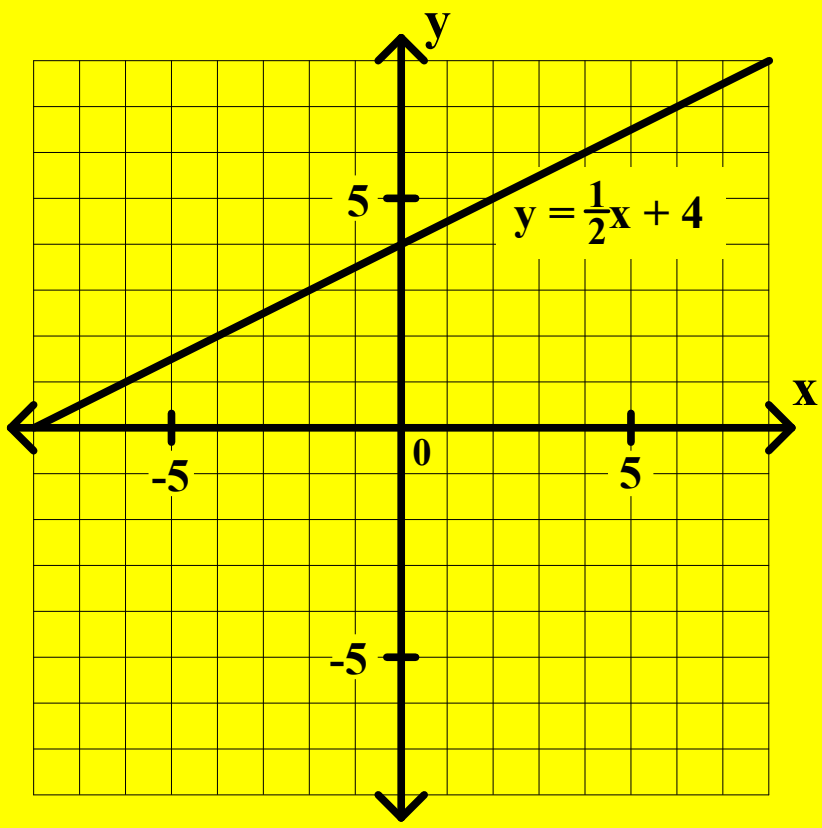
$x - 2y = -8$ $\qquad x + y = -2$

$-2y = -x - 8$ $\qquad y = -x - 2$

$y = \frac{1}{2}x + 4$



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$x + y = -2$ $\quad y = \_\_\_\_\_$

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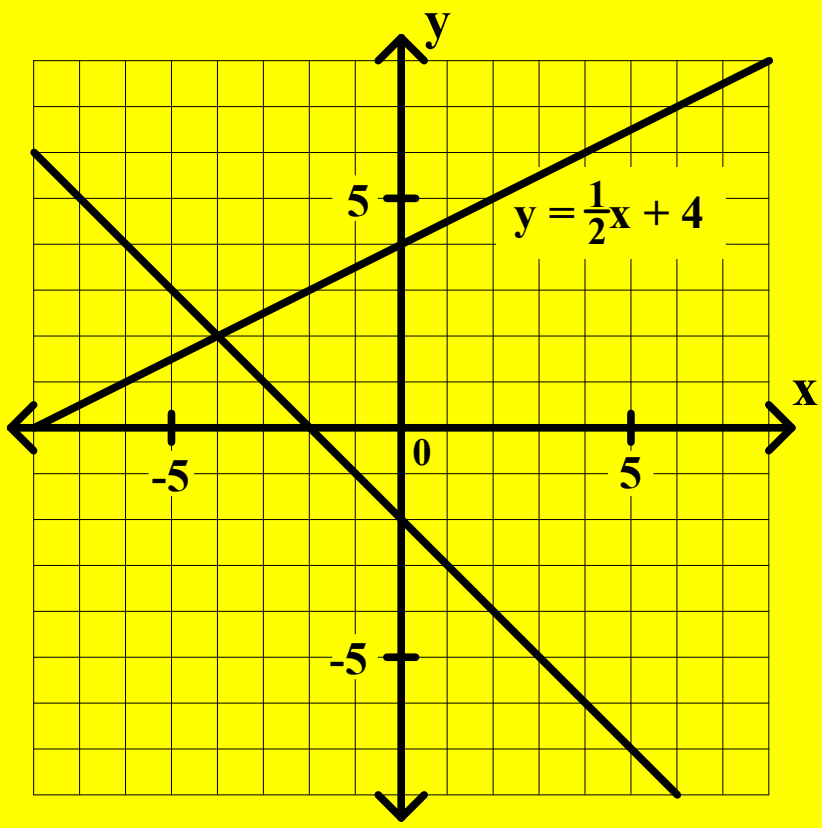
$y = \frac{1}{2}x + 4$



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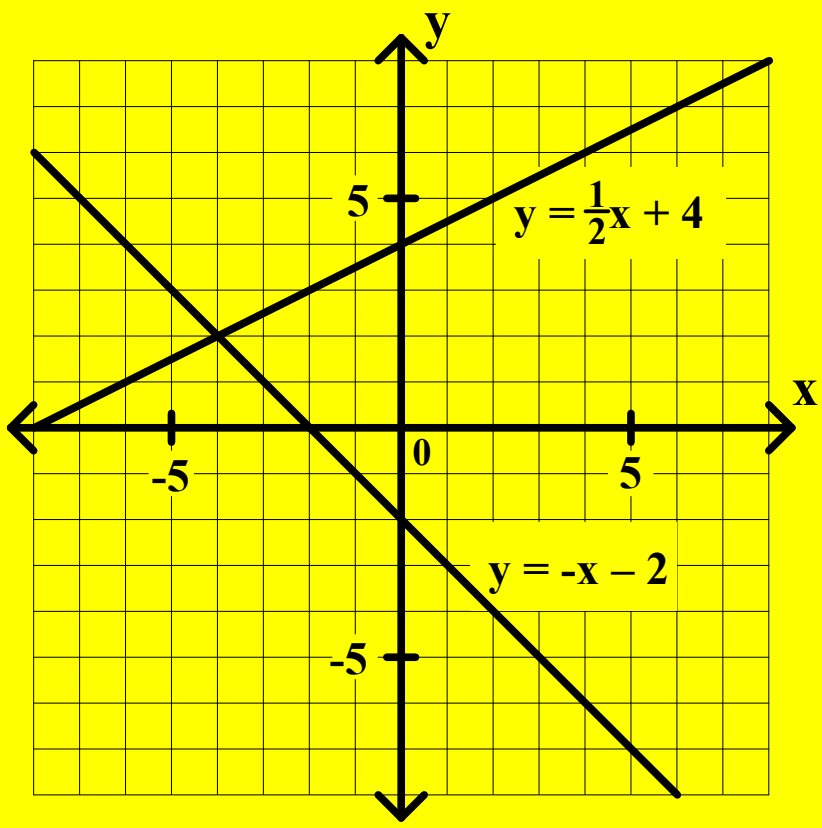
$-2y = -x - 8$ $\qquad y = -x - 2$

$y = \frac{1}{2}x + 4$



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$x + y = -2$ $\quad y = \_\_\_\_\_$

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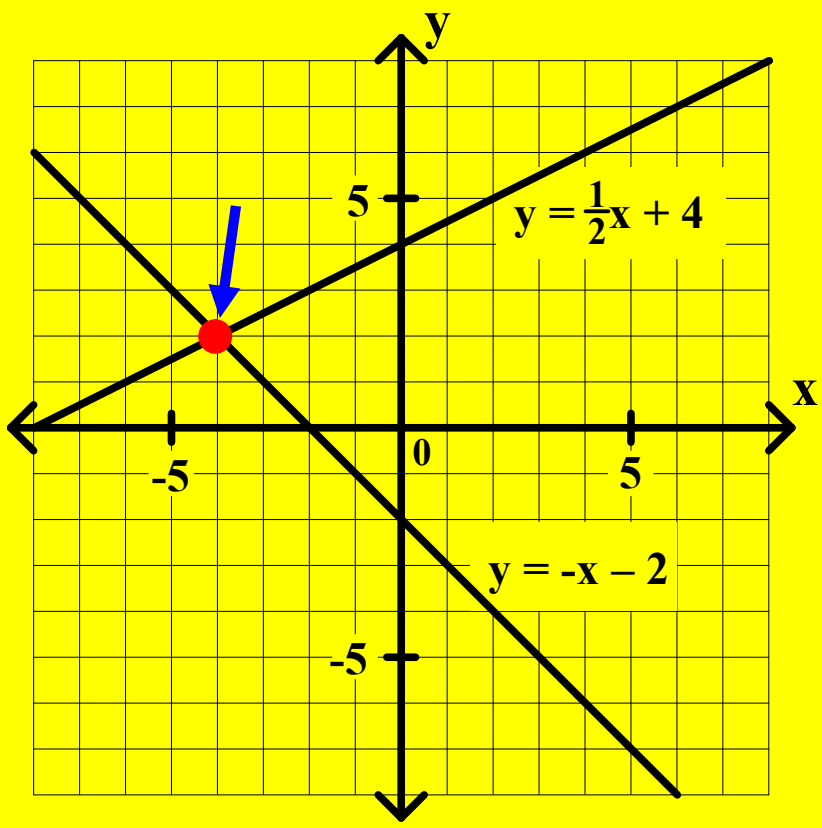
$-2y = -x - 8$ $\qquad y = -x - 2$

$y = \frac{1}{2}x + 4$



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Solve the following systems of equations using the graphing method.

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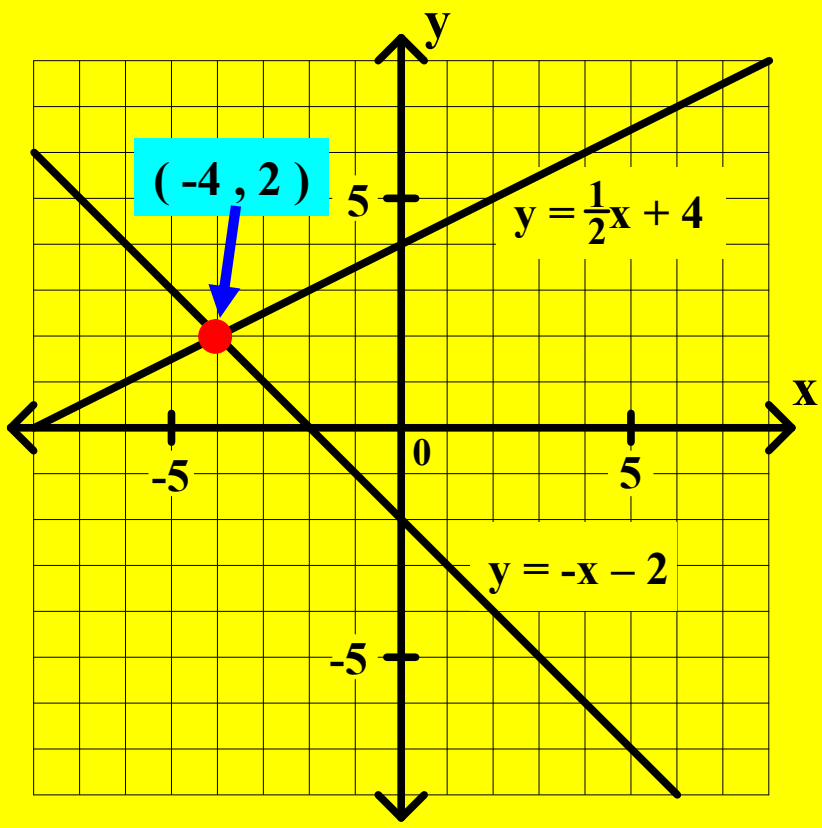
$y = \frac{1}{2}x + 4$



Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the graphing method.

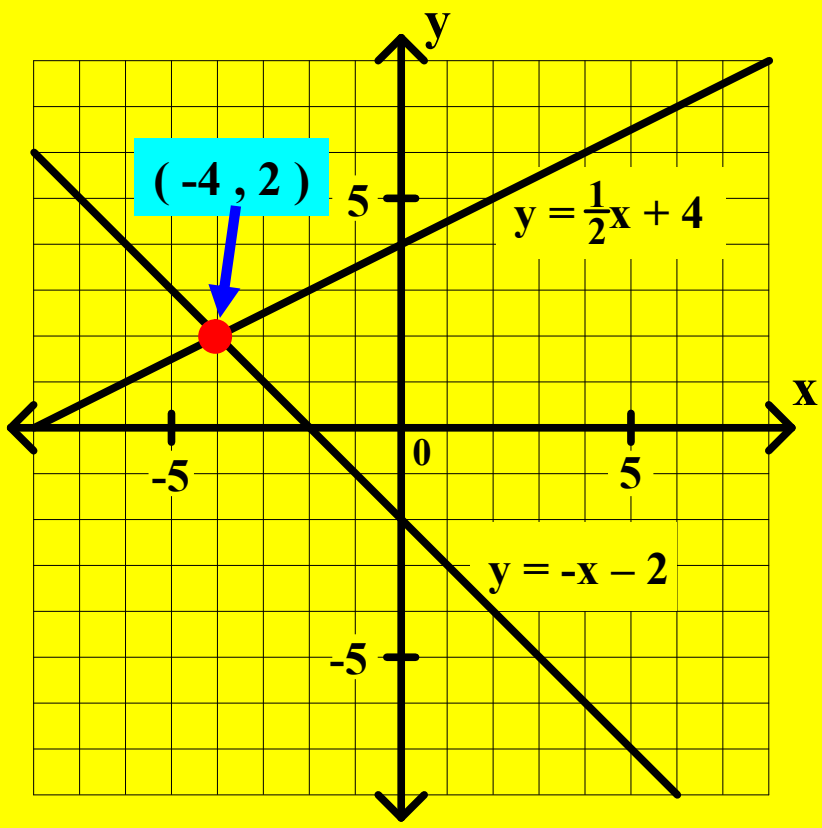
2. $x - 2y = -8$ $\quad x = \underline{\quad -4 \quad}$

$x + y = -2$ $\quad y = \underline{\quad 2 \quad}$

$x - 2y = -8$ $\qquad x + y = -2$

$-2y = -x - 8$ $\qquad y = -x - 2$

$y = \frac{1}{2}x + 4$



Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the graphing method.

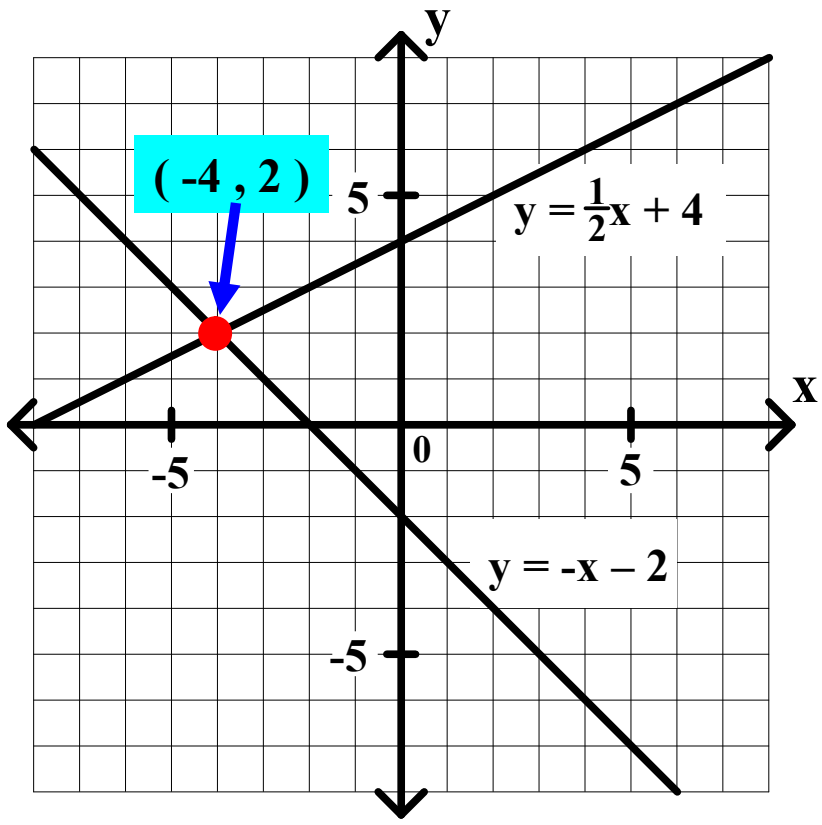
2. $x - 2y = -8$ $\quad x = \underline{-4}$

$x + y = -2$ $\quad y = \underline{2}$

$x - 2y = -8$ $\qquad x + y = -2$

$-2y = -x - 8$ $\qquad y = -x - 2$

$y = \frac{1}{2}x + 4$



Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

Notice that the second equation gives y in terms of x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

$2x$

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3($

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

$2x + 3(3x - 7)$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x =$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \_\_\_\_\_$

$y = 3x - 7$ $\quad y = \_\_\_\_\_$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x =$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $x =$ _____

$y = 3x - 7$ $y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

Notice that the second equation gives y in terms of x. Substitute this expression in for y in the first equation. Now solve for x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$ $\qquad y = 3x - 7$

$11x = 22$

$x = 2$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x =$ 2

$y = 3x - 7$ $\quad y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y =$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6 - 7$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x =$ 2

$y = 3x - 7$ $\quad y =$ _____

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6 - 7$

$y =$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\qquad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6 - 7$

$y = -1$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\quad -1 \quad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6 - 7$

$y = -1$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

3. $2x + 3y = 1$ $\quad x = \underline{\quad 2 \quad}$

$y = 3x - 7$ $\quad y = \underline{\quad -1 \quad}$

$2x + 3(3x - 7) = 1$

$2x + 9x - 21 = 1$

$11x - 21 = 1$

$11x = 22$

$x = 2$

$y = 3x - 7$

$y = 6 - 7$

$y = -1$

Notice that the second equation gives y in terms of x.
Substitute this expression in for y in the first equation.
Now solve for x.
Now, substitute again to find y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x =$ _____

$2x - 7y = 4$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x =$ _____

$2x - 7y = 4$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

2(

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

$2(4y + 3)$

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$2(4y + 3) - 7y$

$x =$ _____

$y =$ _____

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

y

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y =$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$ $\quad x = \_\_\_\_\_$

$2x - 7y = 4$ $\quad y = \_\_\_\_\_$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y.

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x =$

$x =$ _____

$y =$ -2

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8 + 3$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8 + 3$

$x =$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x =$ _____

$y =$ -2

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8 + 3$

$x = -5$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8 + 3$

$x = -5$

$x = \underline{-5}$

$y = \underline{-2}$

Notice that the first equation gives x in terms of y. Substitute this expression in for x in the second equation. Now solve for y. Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

Solve the following systems of equations using the substitution method.

4. $x = 4y + 3$

$2x - 7y = 4$

$x = \underline{-5}$

$y = \underline{-2}$

$2(4y + 3) - 7y = 4$

$8y + 6 - 7y = 4$

$y + 6 = 4$

$y = -2$

$x = 4y + 3$

$x = -8 + 3$

$x = -5$

Notice that the first equation gives x in terms of y.
Substitute this expression in for x in the second equation.
Now solve for y.
Now, substitute again to find x.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ $\quad x =$ _____

$2x + y = 8$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ $\quad x =$ _____

$2x + y = 8$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ $\quad x =$ _____

$2x + y = 8$ $\quad y =$ _____

Notice that both equations are in 'standard form' (Ax + By = C).

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ $\quad x =$ _____

$2x + y = 8$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ $\quad x = \_\_\_\_\_$

$2x + y = 8$ $\quad y = \_\_\_\_\_$

To solve for x, you must eliminate the y-terms.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$
$2x + y = 8$

$x =$ _____
$y =$ _____

To solve for x, you must eliminate the y-terms. Bring down the first equation.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$2x + y = 8$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Bring down the first equation.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$2x + y = 8$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Bring down the first equation.

$4x - 3y = 26$

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$

$\xrightarrow{3}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$

$3 \rightarrow 2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$

$3 \rightarrow 2x + y = 8$

$x =$ _____

$y =$ _____

$$4x - 3y = 26$$
$$6x + 3y = 24$$
$$10x = 50$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x =$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

$\overset{3}{\Rightarrow}$ $2x + y = 8$

$x =$ _____

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$

$3 \rightarrow 2x + y = 8$

$x = \underline{\quad 5 \quad}$

$y = \underline{\qquad}$

$$4x - 3y = 26$$
$$6x + 3y = 24$$
$$10x = 50$$
$$x = 5$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

5. ➡ $4x - 3y = 26$

3 ➡ $2x + y = 8$

$x =$ 5

$y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$

$3 \rightarrow 2x + y = 8$

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$x =$ 5

$y =$ _____

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ←

$3 \rightarrow 2x + y = 8$

$x = \underline{\quad 5 \quad}$

$y = \underline{\quad\quad}$

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ←

$3 \rightarrow 2x + y = 8$

$x = \underline{\quad 5 \quad}$

$y = \underline{\qquad}$

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$4x - 3y = 26$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ←

$3 \rightarrow 2x + y = 8$

$x = \underline{\quad 5 \quad}$

$y = \underline{\quad\quad}$

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$4x - 3y = 26$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$4x - 3y = 26$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$4x - 3y = 26$

$-4x$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$4x - 3y = 26$

$6x + 3y = 24$

$10x = 50$

$x = 5$

$4x - 3y = 26$

$-4x - 2y$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$\xrightarrow{3}$ $2x + y = 8$ $\xleftarrow{-2}$ $y =$ ____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ ____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ ____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y = 10 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ _____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y = 10 \\ y = \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ ____

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array}$$

$$\begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y = 10 \\ y = -2 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x = 5$

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y = -2$

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array} \qquad \begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y = 10 \\ y = -2 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

5. $4x - 3y = 26$ ← $x =$ 5

$3 \rightarrow 2x + y = 8 \leftarrow -2$ $y =$ -2

$$\begin{array}{r} 4x - 3y = 26 \\ 6x + 3y = 24 \\ \hline 10x = 50 \\ x = 5 \end{array} \qquad \begin{array}{r} 4x - 3y = 26 \\ -4x - 2y = -16 \\ \hline -5y = 10 \\ y = -2 \end{array}$$

To solve for x, you must eliminate the y-terms.
Bring down the first equation.
Multiply both sides of the second equation by 3.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Bring down the first equation.
Multiply both sides of the second equation by -2.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$ $\quad x =$ _____

$5x + 4y = -11$ $\quad y =$ _____

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$ $\quad x = \_\_\_\_\_$

$5x + 4y = -11$ $\quad y = \_\_\_\_\_$

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$ $\quad x =$ _____

$5x + 4y = -11$ $\quad y =$ _____

Notice that both equations are in 'standard form' (Ax + By = C).

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$ $\quad x = \_\_\_\_\_$

$5x + 4y = -11$ $\quad y = \_\_\_\_\_$

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$

$5x + 4y = -11$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.

Algebra II Class Worksheet #4 Unit 2

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

6. $3x + 7y = -2$

$5x + 4y = -11$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$5x + 4y = -11$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\quad x = \_\_\_\_\_$

$5x + 4y = -11$ $\quad y = \_\_\_\_\_$

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4.

12x

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\quad x = \_\_\_\_\_$

$5x + 4y = -11$ $\quad y = \_\_\_\_\_$

$12x + 28y$

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$5x + 4y = -11$

$12x + 28y = -8$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$5x + 4y = -11$

$12x + 28y = -8$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms. Multiply both sides of the first equation by 4. Multiply both sides of the second equation by -7.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x$

$x =$ _____

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$x =$ _____

$y =$ _____

$$12x + 28y = -8$$
$$-35x - 28y = 77$$
$$-23x = 69$$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$x =$ _____

$y =$ _____

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x =$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$x =$ _____

$y =$ _____

$$12x + 28y = -8$$
$$-35x - 28y = 77$$
$$-23x = 69$$
$$x = -3$$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$x =$ **-3**

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$x =$ **-3**

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$

$\xrightarrow{-7}$ $5x + 4y = -11$

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$x =$ **-3**

$y =$ _____

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$

$\xrightarrow{-7}$ $5x + 4y = -11$

$x =$ -3

$y =$ _____

$$12x + 28y = -8$$
$$-35x - 28y = 77$$
$$-23x = 69$$
$$x = -3$$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x = \underline{\quad -3 \quad}$

$\xrightarrow{-7}$ $5x + 4y = -11$ $y = \underline{\quad\quad}$

$12x + 28y = -8$ $15x$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ **-3**

$\xrightarrow{-7}$ $5x + 4y = -11$ $y =$ _____

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$15x + 35y$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x = \underline{\quad -3 \quad}$

$\xrightarrow{-7}$ $5x + 4y = -11$ $y = \underline{\quad\quad}$

$12x + 28y = -8$ $\qquad 15x + 35y = -10$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x = \underline{\quad -3 \quad}$

$\xrightarrow{-7}$ $5x + 4y = -11$ $y = \underline{\quad\quad}$

$12x + 28y = -8$ $\quad 15x + 35y = -10$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ __-3__

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ _____

$12x + 28y = -8$ $15x + 35y = -10$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ -3

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ _____

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$15x + 35y = -10$

$-15x$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ -3

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ _____

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$15x + 35y = -10$

$-15x - 12y$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ -3

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ _____

$12x + 28y = -8$

$-35x - 28y = 77$

$-23x = 69$

$x = -3$

$15x + 35y = -10$

$-15x - 12y = 33$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ $\underline{\quad -3 \quad}$

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ $\underline{\quad\quad}$

$12x + 28y = -8$ $\quad$ $15x + 35y = -10$

$-35x - 28y = 77$ $\quad$ $-15x - 12y = 33$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
Multiply both sides of the second equation by -7.
Now add the equations and solve for x.
To solve for y, you must eliminate the x-terms.
Multiply both sides of the first equation by 5.
Multiply both sides of the second equation by -3.
Now add the equations and solve for y.

Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ $\underline{\quad -3 \quad}$

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ $\underline{\quad\quad}$

$12x + 28y = -8$ $\quad$ $15x + 35y = -10$

$-35x - 28y = 77$ $\quad$ $-15x - 12y = 33$

$-23x = 69$

$x = -3$

To solve for x, you must eliminate the y-terms.
Multiply both sides of the first equation by 4.
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Now add the equations and solve for x.
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Algebra II Class Worksheet #4 Unit 2

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

6. $\xrightarrow{4}$ $3x + 7y = -2$ $\xleftarrow{5}$ $x =$ __-3__

$\xrightarrow{-7}$ $5x + 4y = -11$ $\xleftarrow{-3}$ $y =$ _____

$12x + 28y = -8$ $15x + 35y = -10$

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Good luck on your homework !!

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