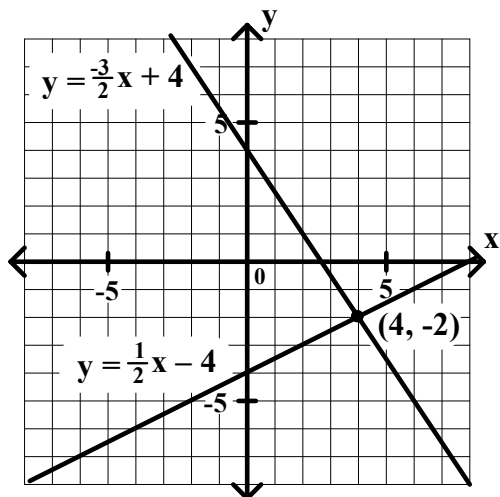


General Algebra 2 Worksheet #4 Unit 3 selected solutions

Solve each of the following systems using the graphing method.

1. $y = \frac{1}{2}x - 4$ $x = 4$
 $y = \frac{3}{2}x + 4$ $y = -2$



Solve each of the following systems of equations using the **substitution method**. Show your work neatly organized.

5. $2x + 3y = 19$ $x = 2$
 $y = 4x - 3$ $y = 5$

$$\begin{aligned} 2x + 3(4x - 3) &= 19 \\ 2x + 12x - 9 &= 19 \\ 14x - 9 &= 19 \\ 14x &= 28 \\ x &= 2 \\ y &= 4x - 3 \\ y &= 8 - 3 \\ y &= 5 \end{aligned}$$

Solve each of the following systems of equations using the **multiplication-addition method**. Show your work neatly organized.

11. $5x - 3y = 19$ $x = 5$
 $3x - 4y = 7$ $y = 2$

$$\begin{array}{rcl} 20x - 12y & = & 76 \\ -9x + 12y & = & -21 \\ \hline 11x & = & 55 \\ x & = & 5 \end{array} \qquad \begin{array}{rcl} 15x - 9y & = & 57 \\ -15x + 20y & = & -35 \\ \hline 11y & = & 22 \\ y & = & 2 \end{array}$$