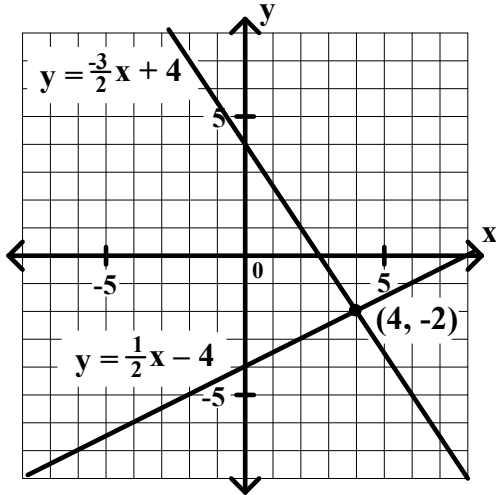


## Algebra 1 Worksheet #4 Unit 9 selected solutions

Solve each of the following systems using the graphing method.

$$1. \quad \begin{array}{ll} y = \frac{1}{2}x - 4 & x = 4 \\ y = \frac{-3}{2}x + 4 & y = -2 \end{array}$$



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

$$5. \quad \begin{array}{ll} 2x + 3y = 19 & x = 2 \\ y = 4x - 3 & y = 5 \end{array}$$

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

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

$$11. \quad \begin{array}{ll} 5x - 3y = 19 & x = 5 \\ 3x - 4y = 7 & y = 2 \end{array}$$

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