

Solve for x and y by substitution
Algebra Practice Problems

Name: _____

Date: _____

Worksheet generated at **www.math.com**

$$\begin{aligned} 1.) \quad & x = -4y + 22 \\ & -x + 2y = 20 \end{aligned}$$

$$\begin{aligned} 2.) \quad & x = -5y + 4 \\ & -5x + 2y = 34 \end{aligned}$$

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

$$\begin{aligned} 4.) \quad & 5x = 4y + 61 \\ & x = 5y + 50 \end{aligned}$$

$$\begin{aligned} 5.) \quad & x = -y + 9 \\ & 2x - y = 18 \end{aligned}$$

$$\begin{aligned} 6.) \quad & y = -2x + 10 \\ & x = -1 - 2y \end{aligned}$$

$$\begin{aligned} 7.) \quad & y = -5x + 16 \\ & -2y - x = -14 \end{aligned}$$

$$\begin{aligned} 8.) \quad & y = 2x + 6 \\ & 3y + 4x = -12 \end{aligned}$$

$$\begin{aligned} 9.) \quad & -2x = -2y - 14 \\ & x = -y - 7 \end{aligned}$$

$$\begin{aligned} 10.) \quad & 2y - 3x = 2 \\ & y = 3x - 2 \end{aligned}$$

$$\begin{aligned} 11.) \quad & 5y + 3x = 35 \\ & y = -5x + 29 \end{aligned}$$

$$\begin{aligned} 12.) \quad & x = 2y + 17 \\ & 5x + 3y = -19 \end{aligned}$$