

Algebra
Intro: Solving Systems by Substitution

Name _____
Date _____ Period _____

Solve the following systems of equation using substitution. Show all your work. Be sure to write your final answer as an ordered pair.

$$\begin{aligned} 1.) \quad & y = 5 - 4x \\ & 3x - 2y = 12 \end{aligned}$$

$$\begin{aligned} 2.) \quad & 3x + 2y = 8 \\ & x = 3y + 10 \end{aligned}$$

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

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

$$\begin{aligned} 5.) \quad & y = -x + 6 \\ & x - 2y = -6 \end{aligned}$$

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

$$\begin{aligned} 7.) \quad & x = 3y - 5 \\ & 2x + y = 11 \end{aligned}$$

$$\begin{aligned} 8.) \quad & y = x + 5 \\ & y = -3x + 1 \end{aligned}$$

$$\begin{aligned} 9.) \quad & 2x = 3y \\ & x = 3y - 3 \end{aligned}$$

$$\begin{aligned} 10.) \quad & y = -2x - 6 \\ & 3x + y = -10 \end{aligned}$$

Answers:

Algebra Solving Systems by Substitution Answers

1. (2, -3)
2. (4, -2)
3. (-1, 3)
4. (1, 1)
5. (2, 4)
6. (2, 6)
7. (4, 3)
8. (-1, 4)
9. (3, 2)
10. (-4, 2)