

## Solving Systems by Substitution Homework

Date \_\_\_\_\_ Period \_\_\_\_\_

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**Solve each system by substitution.**

1)  $y = 3x + 13$   
 $y = -8x - 9$

2)  $y = -2x - 13$   
 $y = x - 4$

3)  $y = 2x - 2$   
 $y = x - 5$

4)  $7x - y = 7$   
 $y = -6x + 6$

5)  $7x + 7y = 0$   
 $y = 2x - 15$

6)  $y = 3x - 14$   
 $-2x + 7y = -22$

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

8)  $x + 4y = -18$   
 $4x + 5y = -17$

$$\begin{aligned} 9) \quad & y = 2 \\ & -4x + 3y = -2 \end{aligned}$$

$$\begin{aligned} 10) \quad & 4x - 3y = 0 \\ & y = 4 \end{aligned}$$

$$\begin{aligned} 11) \quad & -7x - 7y = 0 \\ & y = -3x - 6 \end{aligned}$$

$$\begin{aligned} 12) \quad & -7x + 4y = 20 \\ & y = -2 \end{aligned}$$

$$\begin{aligned} 13) \quad & 6x + 8y = 12 \\ & x + 4y = 10 \end{aligned}$$

$$\begin{aligned} 14) \quad & -7x - 5y = -17 \\ & x - 8y = -15 \end{aligned}$$

$$\begin{aligned} 15) \quad & y = 4x - 11 \\ & y = x - 2 \end{aligned}$$

$$\begin{aligned} 16) \quad & y = 7x - 8 \\ & y = -3x + 2 \end{aligned}$$

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1)  $y = 3x + 13$   
 $y = -8x - 9$

$(-2, 7)$

2)  $y = -2x - 13$   
 $y = x - 4$

$(-3, -7)$

3)  $y = 2x - 2$   
 $y = x - 5$

$(-3, -8)$

4)  $7x - y = 7$   
 $y = -6x + 6$

$(1, 0)$

5)  $7x + 7y = 0$   
 $y = 2x - 15$

$(5, -5)$

6)  $y = 3x - 14$   
 $-2x + 7y = -22$

$(4, -2)$

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

$(-1, -1)$

8)  $x + 4y = -18$   
 $4x + 5y = -17$

$(2, -5)$

$$\begin{aligned} 9) \quad & y = 2 \\ & -4x + 3y = -2 \\ & (2, 2) \end{aligned}$$

$$\begin{aligned} 10) \quad & 4x - 3y = 0 \\ & y = 4 \\ & (3, 4) \end{aligned}$$

$$\begin{aligned} 11) \quad & -7x - 7y = 0 \\ & y = -3x - 6 \\ & (-3, 3) \end{aligned}$$

$$\begin{aligned} 12) \quad & -7x + 4y = 20 \\ & y = -2 \\ & (-4, -2) \end{aligned}$$

$$\begin{aligned} 13) \quad & 6x + 8y = 12 \\ & x + 4y = 10 \\ & (-2, 3) \end{aligned}$$

$$\begin{aligned} 14) \quad & -7x - 5y = -17 \\ & x - 8y = -15 \\ & (1, 2) \end{aligned}$$

$$\begin{aligned} 15) \quad & y = 4x - 11 \\ & y = x - 2 \\ & (3, 1) \end{aligned}$$

$$\begin{aligned} 16) \quad & y = 7x - 8 \\ & y = -3x + 2 \\ & (1, -1) \end{aligned}$$