

## Solving Systems of Equations by Substitution

**Solve each system by substitution.**

1)  $y = 7x - 10$   
 $y = -3$

2)  $y = -8$   
 $y = -2x - 12$

3)  $y = 6x$   
 $y = 5x + 7$

4)  $y = 9x - 9$   
 $y = 9$

5)  $y = -4$   
 $y = x - 8$

6)  $y = 8x - 9$   
 $y = 7$

7)  $y = 6x - 14$   
 $y = -8x$

8)  $y = 2x - 15$   
 $y = 5x$

$$\begin{aligned} 9) \quad y &= -8x \\ 2x + 4y &= 0 \end{aligned}$$

$$\begin{aligned} 10) \quad 6x + 7y &= 20 \\ y &= 2x \end{aligned}$$

$$\begin{aligned} 11) \quad -3x - 5y &= 6 \\ y &= -3 \end{aligned}$$

$$\begin{aligned} 12) \quad 6x - 5y &= 22 \\ y &= -8 \end{aligned}$$

$$\begin{aligned} 13) \quad y &= 2x \\ 3x + 3y &= -18 \end{aligned}$$

$$\begin{aligned} 14) \quad y &= 8x \\ -5x - 5y &= 0 \end{aligned}$$

$$\begin{aligned} 15) \quad y &= -3 \\ -5x - 3y &= 14 \end{aligned}$$

$$\begin{aligned} 16) \quad y &= 3x \\ -3x - y &= -24 \end{aligned}$$

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**Solve each system by substitution.**

1)  $y = 7x - 10$   
 $y = -3$

$(1, -3)$

2)  $y = -8$   
 $y = -2x - 12$

$(-2, -8)$

3)  $y = 6x$   
 $y = 5x + 7$

$(7, 42)$

4)  $y = 9x - 9$   
 $y = 9$

$(2, 9)$

5)  $y = -4$   
 $y = x - 8$

$(4, -4)$

6)  $y = 8x - 9$   
 $y = 7$

$(2, 7)$

7)  $y = 6x - 14$   
 $y = -8x$

$(1, -8)$

8)  $y = 2x - 15$   
 $y = 5x$

$(-5, -25)$

$$\begin{aligned} 9) \quad & y = -8x \\ & 2x + 4y = 0 \\ & (0, 0) \end{aligned}$$

$$\begin{aligned} 10) \quad & 6x + 7y = 20 \\ & y = 2x \\ & (1, 2) \end{aligned}$$

$$\begin{aligned} 11) \quad & -3x - 5y = 6 \\ & y = -3 \\ & (3, -3) \end{aligned}$$

$$\begin{aligned} 12) \quad & 6x - 5y = 22 \\ & y = -8 \\ & (-3, -8) \end{aligned}$$

$$\begin{aligned} 13) \quad & y = 2x \\ & 3x + 3y = -18 \\ & (-2, -4) \end{aligned}$$

$$\begin{aligned} 14) \quad & y = 8x \\ & -5x - 5y = 0 \\ & (0, 0) \end{aligned}$$

$$\begin{aligned} 15) \quad & y = -3 \\ & -5x - 3y = 14 \\ & (-1, -3) \end{aligned}$$

$$\begin{aligned} 16) \quad & y = 3x \\ & -3x - y = -24 \\ & (4, 12) \end{aligned}$$