

## Extra Practice Systems of Equations (Substitution)

**Solve each system by substitution.**

1) 
$$\begin{aligned} -4x - 3y &= 1 \\ y &= 1 \end{aligned}$$

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

3) 
$$\begin{aligned} \frac{1}{2}y &= x \\ 3x - 6y &= 9 \end{aligned}$$

4) 
$$\begin{aligned} 6x + 8y &= -18 \\ y &= 3x - 6 \end{aligned}$$

5) 
$$\begin{aligned} -3x - 3y &= -21 \\ y &= 2x - 17 \end{aligned}$$

6) 
$$\begin{aligned} 3x - 2y &= -8 \\ y &= 4x + 24 \end{aligned}$$

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

$$8) \begin{aligned} 4 - 2y &= x \\ x + 9y &= 11 \end{aligned}$$

$$9) \begin{aligned} x - 7y &= 21 \\ -x + 4y &= -9 \end{aligned}$$

$$10) \begin{aligned} x + 9y &= 11 \\ -x + 9y &= 7 \end{aligned}$$

- 11) Is the point (-7, -4) a solution of the system of linear equations: below

$$\begin{aligned} x &= -7 \\ x - y &= -11 \end{aligned}$$

- 12) Is the point (2, 1) a solution of the system of linear equations below:

$$\begin{aligned} x + y &= 3 \\ y - x &= 1 \end{aligned}$$

## Answers to Extra Practice Systems of Equations (Substitution)

1)  $(-1, 1)$

5)  $(8, -1)$

9)  $(-7, -4)$

2)  $(-1, 2)$

6)  $(-8, -8)$

10)  $(2, 1)$

3)  $(-1, -2)$

7)  $(6, -1)$

11) No

4)  $(1, -3)$

8)  $(2, 1)$

12) No