

Solving Systems Review

Date _____ Period _____

Solve each system.

1) $x - y = -4$
 $3x + y = -28$

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

3) $-20x + 10y = 10$
 $-10x - 3y = 29$

4) $8x - 5y = 22$
 $10x - 10y = 20$

5) $-3x - 2y = 9$
 $-4x - 7y = 25$

6) $3x + 7y = 27$
 $-10x + 6y = -2$

Solve each system by substitution.

7) $y = 3x + 11$
 $y = 4x + 14$

8) $y = 4x - 10$
 $y = x - 7$

9) $4x - 2y = -2$
 $y = -1$

10) $-x - 3y = 0$
 $y = -4x$

11) $5x + 2y = -5$
 $y = 0$

12) $x + 4y = 0$
 $-5x + 4y = 0$

13) $7x - 4y = 15$
 $8x - 6y = 10$

14) $5x - y = 10$
 $6x - 5y = 12$

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Solve each system.

$$\begin{aligned} 1) \quad x - y &= -4 \\ 3x + y &= -28 \\ & \quad (-8, -4) \end{aligned}$$

$$\begin{aligned} 3) \quad -20x + 10y &= 10 \\ -10x - 3y &= 29 \\ & \quad (-2, -3) \end{aligned}$$

$$\begin{aligned} 5) \quad -3x - 2y &= 9 \\ -4x - 7y &= 25 \\ & \quad (-1, -3) \end{aligned}$$

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

Infinite number of solutions

$$\begin{aligned} 4) \quad 8x - 5y &= 22 \\ 10x - 10y &= 20 \\ & \quad (4, 2) \end{aligned}$$

$$\begin{aligned} 6) \quad 3x + 7y &= 27 \\ -10x + 6y &= -2 \\ & \quad (2, 3) \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 7) \quad y &= 3x + 11 \\ y &= 4x + 14 \\ & \quad (-3, 2) \end{aligned}$$

$$\begin{aligned} 9) \quad 4x - 2y &= -2 \\ y &= -1 \\ & \quad (-1, -1) \end{aligned}$$

$$\begin{aligned} 11) \quad 5x + 2y &= -5 \\ y &= 0 \\ & \quad (-1, 0) \end{aligned}$$

$$\begin{aligned} 13) \quad 7x - 4y &= 15 \\ 8x - 6y &= 10 \\ & \quad (5, 5) \end{aligned}$$

$$\begin{aligned} 8) \quad y &= 4x - 10 \\ y &= x - 7 \\ & \quad (1, -6) \end{aligned}$$

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

$$\begin{aligned} 12) \quad x + 4y &= 0 \\ -5x + 4y &= 0 \\ & \quad (0, 0) \end{aligned}$$

$$\begin{aligned} 14) \quad 5x - y &= 10 \\ 6x - 5y &= 12 \\ & \quad (2, 0) \end{aligned}$$