

WS 3.2 - Systems of Equations

Date _____ Period _____

Solve each system by elimination.

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

2)
$$\begin{aligned} 6x - 14y &= 26 \\ -x - 7y &= 5 \end{aligned}$$

3)
$$\begin{aligned} -x - y &= 0 \\ 3x + 3y &= 0 \end{aligned}$$

4)
$$\begin{aligned} -7x + 10y &= 13 \\ -9x + 20y &= -19 \end{aligned}$$

5)
$$\begin{aligned} 9x - 3y &= 24 \\ -5x + 8y &= -26 \end{aligned}$$

6)
$$\begin{aligned} 8x - 7y &= 2 \\ -6x + 4y &= -14 \end{aligned}$$

$$\begin{aligned} 7) \quad & -5x - 10y = 25 \\ & 2x - 7y = -21 \end{aligned}$$

$$\begin{aligned} 8) \quad & 4x + 8y = 12 \\ & -6x - 10y = -14 \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 9) \quad & 4x - 7y = -4 \\ & -2x + y = 12 \end{aligned}$$

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

$$\begin{aligned} 11) \quad & 8x + 4y = 12 \\ & x - 7y = -6 \end{aligned}$$

$$\begin{aligned} 12) \quad & x + 3y = 9 \\ & 2x - 4y = -12 \end{aligned}$$

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Solve each system by elimination.

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

 $(0, 1)$

2) $6x - 14y = 26$
 $-x - 7y = 5$

 $(2, -1)$

3) $-x - y = 0$
 $3x + 3y = 0$

Infinite number of solutions

4) $-7x + 10y = 13$
 $-9x + 20y = -19$

 $(-9, -5)$

5) $9x - 3y = 24$
 $-5x + 8y = -26$

 $(2, -2)$

6) $8x - 7y = 2$
 $-6x + 4y = -14$

 $(9, 10)$

$$\begin{aligned} 7) \quad & -5x - 10y = 25 \\ & 2x - 7y = -21 \end{aligned}$$

$$(-7, 1)$$

$$\begin{aligned} 8) \quad & 4x + 8y = 12 \\ & -6x - 10y = -14 \end{aligned}$$

$$(-1, 2)$$

Solve each system by substitution.

$$\begin{aligned} 9) \quad & 4x - 7y = -4 \\ & -2x + y = 12 \end{aligned}$$

$$(-8, -4)$$

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

$$(0, -3)$$

$$\begin{aligned} 11) \quad & 8x + 4y = 12 \\ & x - 7y = -6 \end{aligned}$$

$$(1, 1)$$

$$\begin{aligned} 12) \quad & x + 3y = 9 \\ & 2x - 4y = -12 \end{aligned}$$

$$(0, 3)$$