

Solve each system by elimination. Write your solution as an ordered pair. SHOW ALL WORK to earn full credit. Check your work.

1)
$$\begin{cases} 4x + 3y = 1 \\ -2x - 3y = 1 \end{cases}$$

2)
$$\begin{cases} 2x + y = 3 \\ -2x + 5y = -9 \end{cases}$$

Solution: _____

Solution: _____

3)
$$\begin{cases} -4x - 2y = -12 \\ 4x + 8y = -24 \end{cases}$$

4)
$$\begin{cases} 5x = 9 - y \\ 10x - 7y = -18 \end{cases}$$

Solution: _____

Solution: _____

5)
$$\begin{cases} -4x + 9y = 9 \\ x - 3y = -6 \end{cases}$$

6)
$$\begin{cases} 5x + 6y = 14 \\ 3x + 5y = 7 \end{cases}$$

Solution: _____

Solution: _____

$$7) \begin{cases} -4x - 9 = -9y \\ x - 3y = -6 \end{cases}$$

$$8) \begin{cases} 5x + 4y = -30 \\ 3x - 9y = -18 \end{cases}$$

Solution: _____

Solution: _____

$$9) \begin{cases} 3 + 2x - y = 0 \\ -3 - 7y = 10x \end{cases}$$

$$10) \begin{cases} x + 4y = 3 \\ x = 3 - 4y \end{cases}$$

Solution: _____

Solution: _____

$$11) \begin{cases} 2x + 8y = 6 \\ -5x - 20y = -15 \end{cases}$$

$$12) \begin{cases} y = -6x - 2 \\ 12x + 2y = -6 \end{cases}$$

Solution: _____

Solution: _____

13) Describe and correct the error in finding the value of one of the variables in the given linear system.

$$\begin{aligned} 3x - 2y &= -3 \\ 5y &= 60 - 3x \end{aligned}$$

$$\begin{array}{r} 3x - 2y = -3 \\ -3x + 5y = 60 \\ \hline 3y = 57 \\ y = 19 \end{array} \quad \times$$