

Solving Systems by Graphing, Substitution, and Elimination

Find the solution to each system of equations by using a graph, substitution, or elimination. You must use each method a minimum of 3 times.

1. $2x + y = 0$
 $x + y = 3$

2. $-2x - y = 1$
 $-6x - 3y = 3$

3. $y = \frac{1}{5}x + 7$
 $y = -\frac{2}{5}x + 4$

4. $x - 4y = -4$
 $5x - 4y = 12$

$$\begin{aligned} 5. \quad & 4x + 5y = 6 \\ & 6x - 7y = -20 \end{aligned}$$

$$\begin{aligned} 6. \quad & y = -\frac{5}{3}x + 6 \\ & 10x + 6y = 18 \end{aligned}$$

$$\begin{aligned} 7. \quad & x - y = 2 \\ & x = -2 \end{aligned}$$

$$\begin{aligned} 8. \quad & -3x + 7y = -16 \\ & -9x + 5y = 16 \end{aligned}$$

$$\begin{aligned} 9. \quad & -2y - 5x = 2 \\ & -2y - 5x = -4 \end{aligned}$$

$$\begin{aligned} 10. \quad & -x + 2y = -14 \\ & -3x + 4y = -36 \end{aligned}$$

$$\begin{aligned} 11. \quad & 3x - 2y = 2 \\ & 5x - 5y = 10 \end{aligned}$$

$$\begin{aligned} 12. \quad & y = 6x - 11 \\ & -2x - 3y = -7 \end{aligned}$$

