

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. $2x + y = 0$ G, S, E
 $x + y = 3$

$(-3, 6)$

2. $-2x - y = 1$ G, S, E
 $-6x - 3y = 3$

Infinite Solutions

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

$(-5, 6)$

4. $x - 4y = -4$ G, S, E
 $5x - 4y = 12$

$(4, 2)$

5. $4x + 5y = 6$ E
 $6x - 7y = -20$

$(-1, 2)$

6. $y = -\frac{5}{3}x + 6$ G.S

$10x + 6y = 18$

No Solution

7. $x - y = 2$ G.S
 $x = -2$

$(-2, -4)$

8. $-3x + 7y = -16$ E
 $-9x + 5y = 16$

$(-4, -4)$

9. $-2y - 5x = 2$ E
 $-2y - 5x = -4$

No Solution

10. $-x + 2y = -14$ G, S, E
 $-3x + 4y = -36$

(8, -3)

11. $3x - 2y = 2$ G, S, E
 $5x - 5y = 10$

(-2, -4)

12. $y = 6x - 11$ S
 $-2x - 3y = -7$

(2, 1)

