

Linear Equations in Two Variables

1. Determine which ordered pair is a solution of $-3x + 4y = 12$.

a) $\left(\frac{1}{3}, 4\right)$

b) $\left(-\frac{4}{3}, 2\right)$

c) $\left(\frac{2}{3}, -7\right)$

d) $(-3, 0)$

2. Determine which equation has $(-3, 2)$ as a solution.

a) $-2x + 4y = -10$

b) $\frac{1}{3}x + 2y = -8$

c) $\frac{2}{3}x - y = -4$

d) $4x - \frac{1}{2}y = 8$

3. Find the value of b that makes the ordered pair $(-8, b)$ a solution to $-3x - 5y = 11$.

Directions: For questions 4 through 7, graph the linear equation.

4. $-2x + 4y = 8$

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

6. $y = -3$

7. $x = 2$

Directions: For questions 8 through 10, write the equation in function form and then sketch its graph.

8. $-6x + 3y = 3$

9. $2x + 4y = 0$

10. $2x - 3y = 6$