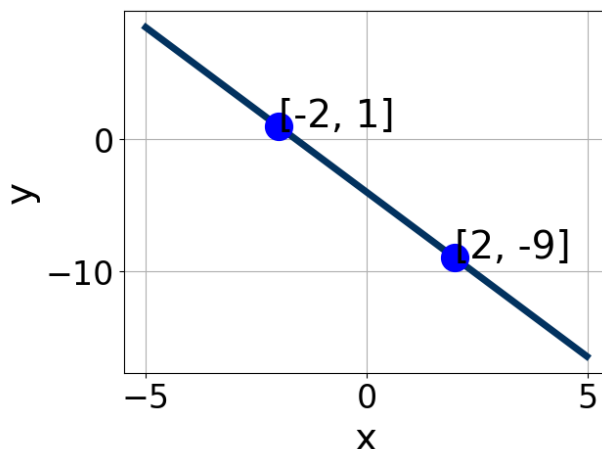


1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [2.3, 4.7]$, $B \in [0.74, 1.41]$, and $C \in [-4, -3]$
B. $A \in [-5.6, -3.1]$, $B \in [-3.31, -1.28]$, and $C \in [6, 14]$
C. $A \in [4.8, 5.4]$, $B \in [-3.31, -1.28]$, and $C \in [6, 14]$
D. $A \in [2.3, 4.7]$, $B \in [-1.94, 0.61]$, and $C \in [0, 5]$
E. $A \in [4.8, 5.4]$, $B \in [1.33, 2.53]$, and $C \in [-11, -7]$
-

2. Find the equation of the line described below. Write the linear equation as $y = mx + b$ and choose the intervals that contain m and b .

Perpendicular to $5x - 7y = 11$ and passing through the point $(-2, -4)$.

- A. $m \in [-1.1, 1.2]$ $b \in [-7.5, -6.5]$
B. $m \in [-3.5, -0.9]$ $b \in [-3.2, -1.4]$
C. $m \in [0.6, 3.3]$ $b \in [-1.5, -0.5]$
D. $m \in [-3.5, -0.9]$ $b \in [-7.5, -6.5]$
E. $m \in [-3.5, -0.9]$ $b \in [6.5, 7.3]$
-

3. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that

contain m and b .

$$(-8, 2) \text{ and } (-2, 8)$$

- A. $m \in [-0.3, 1.8]$ $b \in [6.3, 13.6]$
 - B. $m \in [-0.3, 1.8]$ $b \in [6.3, 13.6]$
 - C. $m \in [-5.3, -0.3]$ $b \in [5.8, 8.6]$
 - D. $m \in [-0.3, 1.8]$ $b \in [-12.5, -9.6]$
 - E. $m \in [-0.3, 1.8]$ $b \in [6.3, 13.6]$
-

4. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(9x + 17) = -13(-11x - 5)$$

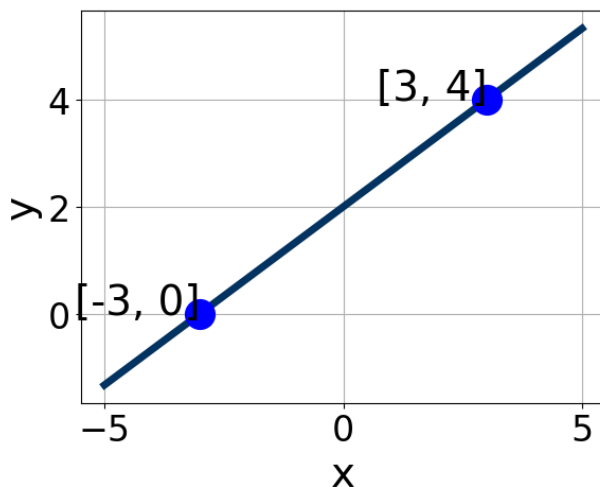
- A. $x \in [-0.37, 0.24]$
 - B. $x \in [-1.29, -0.14]$
 - C. $x \in [0.49, 0.92]$
 - D. $x \in [-2.85, -2.6]$
 - E. There are no real solutions.
-

5. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-3x - 9}{2} - \frac{-4x + 4}{7} = \frac{-4x - 7}{6}$$

- A. $x \in [-0.22, 1.78]$
 - B. $x \in [-16.91, -12.91]$
 - C. $x \in [-26.91, -20.91]$
 - D. $x \in [-11.55, -7.55]$
 - E. There are no real solutions.
-

6. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-1.12, 1.47]$, $B \in [-1.81, -0.6]$, and $C \in [-3, -1.7]$
B. $A \in [1.93, 2.56]$, $B \in [-3.67, -1.36]$, and $C \in [-7.4, -5.9]$
C. $A \in [-1.12, 1.47]$, $B \in [0.88, 2.07]$, and $C \in [1, 5.1]$
D. $A \in [-3.16, -1.81]$, $B \in [2.27, 3.47]$, and $C \in [5.2, 8.9]$
E. $A \in [1.93, 2.56]$, $B \in [2.27, 3.47]$, and $C \in [5.2, 8.9]$

7. Find the equation of the line described below. Write the linear equation as $y = mx + b$ and choose the intervals that contain m and b .

Perpendicular to $7x + 4y = 3$ and passing through the point $(4, -8)$.

- A. $m \in [0.15, 0.73]$ $b \in [-11.1, -10.2]$
B. $m \in [0.15, 0.73]$ $b \in [10, 11.4]$
C. $m \in [0.15, 0.73]$ $b \in [-13.1, -11.5]$
D. $m \in [-1.23, 0.15]$ $b \in [-7.1, -4.4]$
E. $m \in [1.11, 2.45]$ $b \in [-11.1, -10.2]$

8. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b .

$$(-7, 9) \text{ and } (-11, 7)$$

- A. $m \in [0.4, 2.9]$ $b \in [17.8, 22.1]$
 - B. $m \in [0.4, 2.9]$ $b \in [-12.6, -10]$
 - C. $m \in [0.4, 2.9]$ $b \in [10.8, 13.3]$
 - D. $m \in [-4.8, -0.4]$ $b \in [0.2, 1.9]$
 - E. $m \in [0.4, 2.9]$ $b \in [15.3, 16.9]$
-

9. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(5x - 8) = -6(-19x - 3)$$

- A. $x \in [-0.44, -0.14]$
 - B. $x \in [-2.51, -1.58]$
 - C. $x \in [-0.15, 0.48]$
 - D. $x \in [-1.34, -0.4]$
 - E. There are no real solutions.
-

10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-4x + 7}{6} - \frac{-6x + 9}{2} = \frac{3x + 4}{5}$$

- A. $x \in [-0.7, 3.2]$
- B. $x \in [2.4, 4.1]$
- C. $x \in [-5, -3.8]$
- D. $x \in [-3.4, -2.1]$
- E. There are no real solutions.

