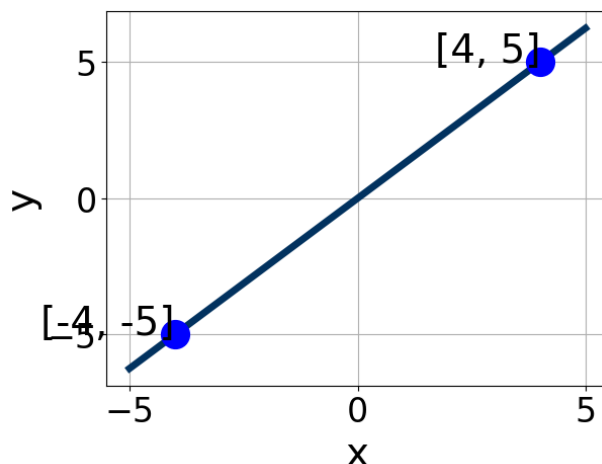


1. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b .

$$(-6, 2) \text{ and } (-8, -9)$$

- A. $m \in [1.5, 6.5]$ $b \in [-10, 1]$
 B. $m \in [-7.5, -1.5]$ $b \in [-53, -50]$
 C. $m \in [1.5, 6.5]$ $b \in [8, 18]$
 D. $m \in [1.5, 6.5]$ $b \in [-38, -29]$
 E. $m \in [1.5, 6.5]$ $b \in [30, 36]$

2. 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. $A \in [2.5, 6.6]$, $B \in [3.92, 5.01]$, and $C \in [0, 2]$
 B. $A \in [2.5, 6.6]$, $B \in [-4.36, -2.62]$, and $C \in [0, 2]$
 C. $A \in [-2.1, 0.6]$, $B \in [0.45, 2.18]$, and $C \in [0, 2]$
 D. $A \in [-5.8, -3.5]$, $B \in [3.92, 5.01]$, and $C \in [0, 2]$
 E. $A \in [-2.1, 0.6]$, $B \in [-2.37, -0.85]$, and $C \in [0, 2]$

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

$$-7(18x + 11) = -14(6x + 5)$$

- A. $x \in [3.35, 3.78]$
 - B. $x \in [-0.42, 0.59]$
 - C. $x \in [-3.78, -3.48]$
 - D. $x \in [-0.83, -0.38]$
 - E. There are no real solutions.
-

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

$$-19(-12x + 16) = -7(2x + 15)$$

- A. $x \in [1.73, 2.49]$
 - B. $x \in [-1.95, -1.6]$
 - C. $x \in [0.24, 1.44]$
 - D. $x \in [1.37, 1.7]$
 - E. There are no real solutions.
-

5. 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 $7x + 3y = 7$ and passing through the point $(-6, -5)$.

- A. $m \in [2.11, 2.89]$ $b \in [-4.5, -0.1]$
 - B. $m \in [0.3, 0.47]$ $b \in [-0.1, 1.9]$
 - C. $m \in [-0.76, -0.31]$ $b \in [-8.2, -5.3]$
 - D. $m \in [0.3, 0.47]$ $b \in [-4.5, -0.1]$
 - E. $m \in [0.3, 0.47]$ $b \in [1.7, 5.1]$
-

6. 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 .

$$(-3, 6) \text{ and } (11, -8)$$

- A. $m \in [0.68, 1.32]$ $b \in [-19, -18]$
 - B. $m \in [-1.02, -0.87]$ $b \in [-3, -2]$
 - C. $m \in [-1.02, -0.87]$ $b \in [1, 4]$
 - D. $m \in [-1.02, -0.87]$ $b \in [-19, -18]$
 - E. $m \in [-1.02, -0.87]$ $b \in [4, 11]$
-

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 $3x - 7y = 10$ and passing through the point $(-5, -5)$.

- A. $m \in [-1.3, 2]$ $b \in [-17.67, -10.67]$
 - B. $m \in [-3.6, -1]$ $b \in [-17.67, -10.67]$
 - C. $m \in [-3.6, -1]$ $b \in [-1, 5]$
 - D. $m \in [-3.6, -1]$ $b \in [15.67, 21.67]$
 - E. $m \in [1, 2.6]$ $b \in [2.67, 8.67]$
-

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

$$\frac{3x - 3}{7} - \frac{8x - 4}{5} = \frac{-7x + 6}{4}$$

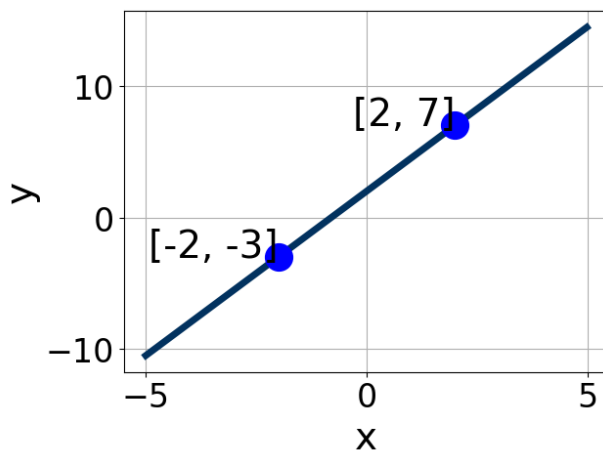
- A. $x \in [2.2, 6.4]$
- B. $x \in [1.5, 2.4]$
- C. $x \in [7.7, 8.8]$
- D. $x \in [-1.2, 1.9]$
- E. There are no real solutions.

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

$$\frac{-3x - 5}{8} - \frac{5x - 6}{5} = \frac{-9x - 4}{7}$$

- A. $x \in [12.84, 16.84]$
- B. $x \in [-16.04, -12.04]$
- C. $x \in [52, 57]$
- D. $x \in [-5.15, 1.85]$
- E. There are no real solutions.

10. 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. $A \in [-2.5, 1.5]$, $B \in [-0.39, 1.08]$, and $C \in [-1, 2.3]$
- B. $A \in [-2.5, 1.5]$, $B \in [-1.45, 0.59]$, and $C \in [-2.5, -1.3]$
- C. $A \in [1, 11]$, $B \in [1.79, 2.56]$, and $C \in [2.3, 5.7]$
- D. $A \in [1, 11]$, $B \in [-4.38, -1.89]$, and $C \in [-6.8, -3.2]$
- E. $A \in [-5, -3]$, $B \in [1.79, 2.56]$, and $C \in [2.3, 5.7]$