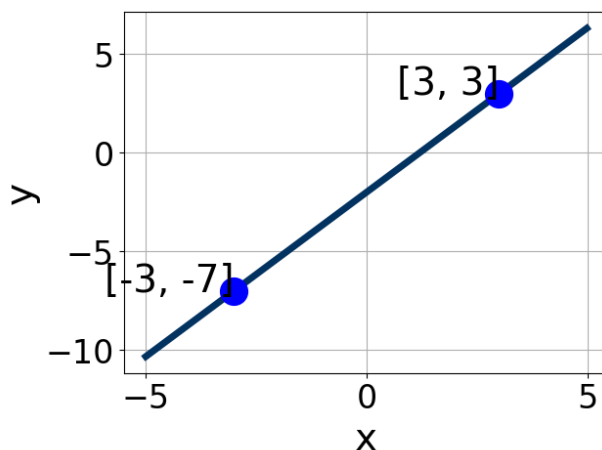


1. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b .

$$(-11, -5) \text{ and } (2, 11)$$

- A. $m \in [-1.4, -0.1]$ $b \in [13.1, 15.9]$
 B. $m \in [0.8, 2.7]$ $b \in [-10, -6.3]$
 C. $m \in [0.8, 2.7]$ $b \in [5.4, 7.6]$
 D. $m \in [0.8, 2.7]$ $b \in [8.1, 8.9]$
 E. $m \in [0.8, 2.7]$ $b \in [8.7, 10.5]$

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. $A \in [-4.67, 0.33]$, $B \in [0.59, 1.78]$, and $C \in [-2, -1]$
 B. $A \in [3, 7]$, $B \in [-4, -2.48]$, and $C \in [4, 9]$
 C. $A \in [-4.67, 0.33]$, $B \in [-1.21, -0.03]$, and $C \in [0, 4]$
 D. $A \in [3, 7]$, $B \in [2.04, 4.04]$, and $C \in [-8, -5]$
 E. $A \in [-6, -3]$, $B \in [2.04, 4.04]$, and $C \in [-8, -5]$

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

solution.

$$-4(-2x - 17) = -10(9x + 3)$$

- A. $x \in [0.34, 0.4]$
- B. $x \in [0.41, 0.53]$
- C. $x \in [-0.42, -0.34]$
- D. $x \in [-1.07, -0.97]$
- E. There are no real solutions.

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

$$-17(-8x - 10) = -13(-3x - 11)$$

- A. $x \in [3, 3.3]$
- B. $x \in [-1.6, 0.1]$
- C. $x \in [-2.3, -1.2]$
- D. $x \in [-3.3, -3]$
- E. There are no real solutions.

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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 .

Parallel to $7x + 8y = 8$ and passing through the point $(-7, -9)$.

- A. $m \in [-1.51, -0.99]$ $b \in [-15.29, -13.93]$
- B. $m \in [-0.99, -0.17]$ $b \in [-15.29, -13.93]$
- C. $m \in [-0.99, -0.17]$ $b \in [-2.16, -1.42]$
- D. $m \in [-0.99, -0.17]$ $b \in [14.33, 16.04]$
- E. $m \in [0.55, 1.34]$ $b \in [-3.64, -2.72]$

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 .

$$(11, 6) \text{ and } (2, -11)$$

- A. $m \in [-3.7, -1.2]$ $b \in [-7.6, -6.3]$
B. $m \in [1.6, 3.9]$ $b \in [-14, -8.8]$
C. $m \in [1.6, 3.9]$ $b \in [13.8, 16.5]$
D. $m \in [1.6, 3.9]$ $b \in [-6.7, -4]$
E. $m \in [1.6, 3.9]$ $b \in [-17.2, -14.2]$
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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 .

Parallel to $4x - 5y = 6$ and passing through the point $(-4, -6)$.

- A. $m \in [0.64, 0.94]$ $b \in [-2.47, -1.18]$
B. $m \in [-1.54, -0.1]$ $b \in [-10.84, -8.06]$
C. $m \in [0.93, 1.67]$ $b \in [-4.01, -2.42]$
D. $m \in [0.64, 0.94]$ $b \in [-4.01, -2.42]$
E. $m \in [0.64, 0.94]$ $b \in [1.3, 4.14]$
-

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

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

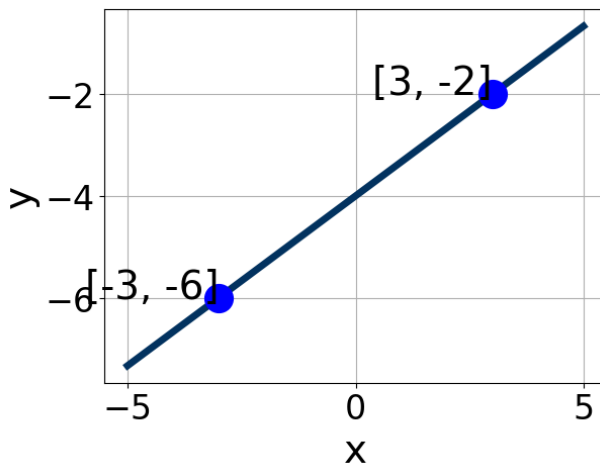
- A. $x \in [-5.37, -2.37]$
B. $x \in [-0.63, 2.37]$
C. $x \in [-23, -18]$
D. $x \in [-11.37, -6.37]$
E. There are no real solutions.

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

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

- A. $x \in [-10, -8]$
- B. $x \in [-2.7, -0.9]$
- C. $x \in [-0.9, 0]$
- D. $x \in [-4.5, -2.2]$
- 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. $A \in [-1.8, -0.3]$, $B \in [-1.31, -0.87]$, and $C \in [3, 5]$
- B. $A \in [0.2, 5.6]$, $B \in [2.7, 4.31]$, and $C \in [-22, -9]$
- C. $A \in [0.2, 5.6]$, $B \in [-3.55, -2.55]$, and $C \in [9, 15]$
- D. $A \in [-3.6, -0.9]$, $B \in [2.7, 4.31]$, and $C \in [-22, -9]$
- E. $A \in [-1.8, -0.3]$, $B \in [0.2, 2.06]$, and $C \in [-11, 1]$