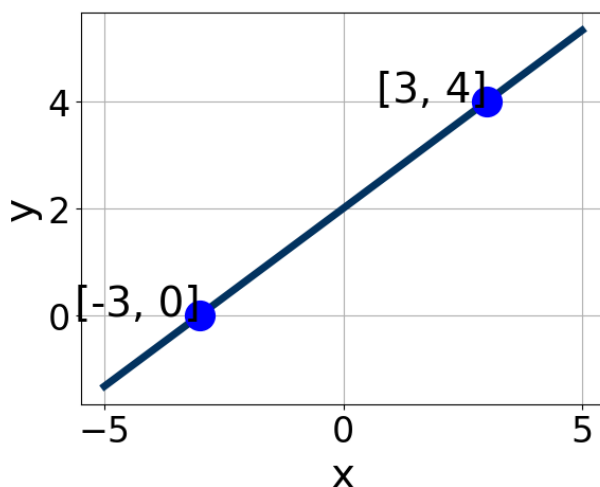


1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-0.67, 0.33]$, $B \in [-2.52, -0.91]$, and $C \in [-5.6, 0.9]$
B. $A \in [-0.67, 0.33]$, $B \in [0.93, 2.65]$, and $C \in [-0.4, 3.2]$
C. $A \in [-3, -1]$, $B \in [1.84, 3.16]$, and $C \in [4.5, 9.8]$
D. $A \in [0, 3]$, $B \in [-3.7, -2.3]$, and $C \in [-6.3, -5.4]$
E. $A \in [0, 3]$, $B \in [1.84, 3.16]$, and $C \in [4.5, 9.8]$

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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 $3x + 4y = 15$ and passing through the point $(3, -2)$.

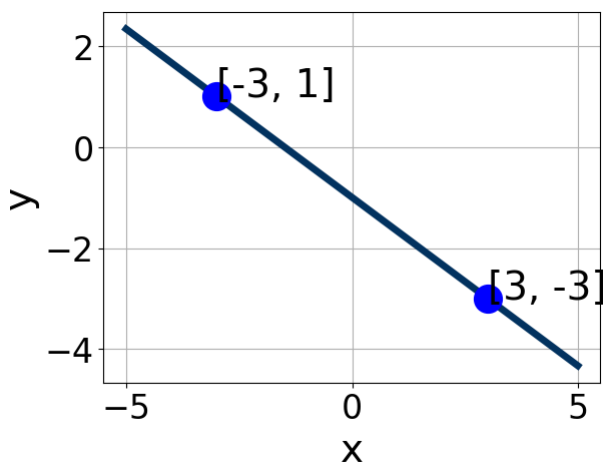
- A. $m \in [1.14, 1.87]$ $b \in [-6.48, -5.18]$
B. $m \in [-1.93, -0.96]$ $b \in [1.1, 2.43]$
C. $m \in [1.14, 1.87]$ $b \in [-5.47, -4.87]$
D. $m \in [1.14, 1.87]$ $b \in [5.11, 7.08]$
E. $m \in [0.61, 1.11]$ $b \in [-6.48, -5.18]$

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 .

(11, 2) and (6, 6)

- A. $m \in [-1.06, 0.03]$ $b \in [-10.85, -10.16]$
B. $m \in [-1.06, 0.03]$ $b \in [-9.81, -8.91]$
C. $m \in [-1.06, 0.03]$ $b \in [10.19, 11.58]$
D. $m \in [0.65, 1.18]$ $b \in [0.83, 1.78]$
E. $m \in [-1.06, 0.03]$ $b \in [-1.99, 0.9]$
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4. 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. $A \in [-0.69, 0.72]$, $B \in [-0.02, 1.44]$, and $C \in [-1.1, -0.4]$
B. $A \in [1.1, 3.35]$, $B \in [-3.02, -1.02]$, and $C \in [1.7, 5]$
C. $A \in [-3.76, -1.16]$, $B \in [-3.02, -1.02]$, and $C \in [1.7, 5]$
D. $A \in [-0.69, 0.72]$, $B \in [-1.53, -0.5]$, and $C \in [0.7, 2.2]$
E. $A \in [1.1, 3.35]$, $B \in [2.82, 3.42]$, and $C \in [-5.3, -2.6]$
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5. Solve the equation below. Then, choose the interval that contains the

solution.

$$-5(-10x + 12) = -8(-4x + 2)$$

- A. $x \in [0.4, 1.4]$
- B. $x \in [2.1, 3.1]$
- C. $x \in [4, 5.2]$
- D. $x \in [-4.8, -3.6]$
- E. There are no real solutions.

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

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

- A. $x \in [-2.9, -0.1]$
- B. $x \in [0.2, 1]$
- C. $x \in [-26.4, -20.7]$
- D. $x \in [-8, -5.6]$
- E. There are no real solutions.

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7. 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 .

$$(-11, 4) \text{ and } (5, -9)$$

- A. $m \in [-1, 0]$ $b \in [-14.9, -13.7]$
- B. $m \in [0.5, 2]$ $b \in [-13.8, -11.7]$
- C. $m \in [-1, 0]$ $b \in [-6.8, -1]$
- D. $m \in [-1, 0]$ $b \in [10.8, 16.5]$
- E. $m \in [-1, 0]$ $b \in [3.3, 6.9]$

8. 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 $5x + 4y = 10$ and passing through the point $(-10, 10)$.

- A. $m \in [0.25, 1.24]$ $b \in [-20.5, -16.7]$
 - B. $m \in [-1.57, 0.33]$ $b \in [0.3, 2.1]$
 - C. $m \in [0.25, 1.24]$ $b \in [14.6, 19]$
 - D. $m \in [0.25, 1.24]$ $b \in [18.4, 20.2]$
 - E. $m \in [0.93, 1.35]$ $b \in [14.6, 19]$
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9. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A. $x \in [0.1, 0.9]$
 - B. $x \in [1.8, 2.9]$
 - C. $x \in [8.1, 8.6]$
 - D. $x \in [-2.8, -1.7]$
 - E. There are no real solutions.
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10. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(17x + 5) = -4(-19x + 10)$$

- A. $x \in [-0.08, 0.19]$
 - B. $x \in [-0.51, -0.33]$
 - C. $x \in [0.13, 0.7]$
 - D. $x \in [-1.06, -0.64]$
 - E. There are no real solutions.
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