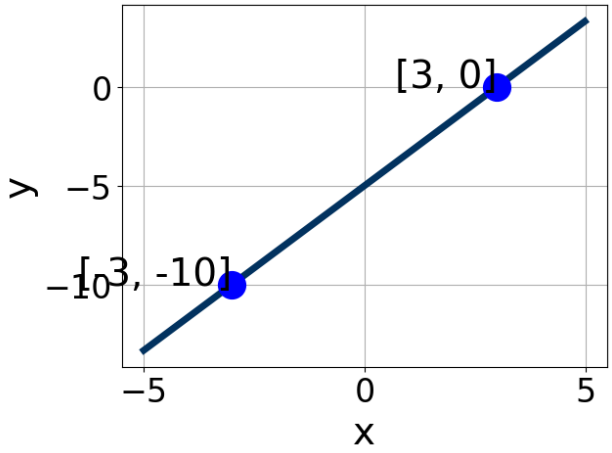
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3, 9]$, $B \in [-5.7, -2.2]$, and $C \in [11, 21]$

B. $A \in [3, 9]$, $B \in [1.3, 5.7]$, and $C \in [-16, -9]$

C. $A \in [-4.67, -0.67]$, $B \in [0.7, 2.2]$, and $C \in [-6, 0]$

D. $A \in [-8, -4]$, $B \in [1.3, 5.7]$, and $C \in [-16, -9]$

E. $A \in [-4.67, -0.67]$, $B \in [-2.9, 0.5]$, and $C \in [5, 11]$

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

$$\frac{3x + 9}{2} - \frac{7x + 3}{3} = \frac{3x + 7}{8}$$

A. $x \in [-1.2, -0.1]$

B. $x \in [2.6, 4.2]$

C. $x \in [-0.7, 0.8]$

D. $x \in [1, 2.6]$

E. There are no real solutions.

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

solution.

$$-7(5x - 18) = -8(-9x + 6)$$

A. $x \in [1.55, 2.74]$

B. $x \in [-2.29, -1.81]$

C. $x \in [0.36, 0.96]$

D. $x \in [-1.77, -0.42]$

E. There are no real solutions.

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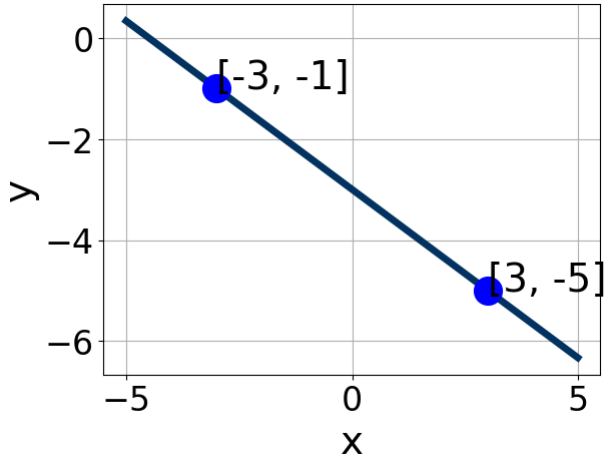
4. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.68, 2.02]$, $B \in [2.54, 3.39]$, and $C \in [-12, -8]$

B. $A \in [0.68, 2.02]$, $B \in [-3.4, -1.98]$, and $C \in [7, 10]$

C. $A \in [-2.64, -0.91]$, $B \in [-3.4, -1.98]$, and $C \in [7, 10]$

D. $A \in [-0.59, 1.1]$, $B \in [0.46, 1.56]$, and $C \in [-3, -1]$

E. $A \in [-0.59, 1.1]$, $B \in [-1.28, -0.97]$, and $C \in [3, 7]$

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5. 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.

$$(11, -9) \text{ and } (-6, -7)$$

A. $m \in [-0.12, -0.04]$ $b \in [-22, -19]$

B. $m \in [-0.12, -0.04]$ $b \in [4.71, 11.71]$

C. $m \in [0.09, 0.32]$ $b \in [-7.29, -1.29]$

D. $m \in [-0.12, -0.04]$ $b \in [-1, 4]$

E. $m \in [-0.12, -0.04]$ $b \in [-10.71, -6.71]$

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

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

A. $x \in [-0.83, 0.17]$

B. $x \in [67.79, 72.79]$

C. $x \in [12, 18]$

D. $x \in [5.72, 7.72]$

E. There are no real solutions.

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

$$-11(-18x - 10) = -16(13x - 6)$$

A. $x \in [0.36, 0.79]$

B. $x \in [-0.88, -0.32]$

C. $x \in [20.04, 21.19]$

D. $x \in [-0.17, 0.33]$

E. There are no real solutions.

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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.

Parallel to $3x - 7y = 13$ and passing through the point $(-9, -3)$.

A. $m \in [-0.21, 0.83]$ $b \in [0.5, 1.7]$

B. $m \in [-0.21, 0.83]$ $b \in [4.1, 8]$

C. $m \in [2.31, 2.73]$ $b \in [0.5, 1.7]$

D. $m \in [-0.21, 0.83]$ $b \in [-2.1, 0.8]$

E. $m \in [-0.52, -0.34]$ $b \in [-7.5, -4.8]$

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9. 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.

$$(-6, 6) \text{ and } (3, -5)$$

A. $m \in [-0.9, 3.5]$ $b \in [-9.22, -8.26]$

B. $m \in [-1.6, 0.7]$ $b \in [10.79, 13.35]$

C. $m \in [-1.6, 0.7]$ $b \in [1.29, 1.9]$

D. $m \in [-1.6, 0.7]$ $b \in [-1.52, -1]$

E. $m \in [-1.6, 0.7]$ $b \in [-8.05, -6.67]$

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10. 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 $8x + 3y = 9$ and passing through the point $(-6, -2)$.

A. $m \in [-5.1, -2.5]$ $b \in [17, 19]$

B. $m \in [-1, 0]$ $b \in [-20, -14]$

C. $m \in [-5.1, -2.5]$ $b \in [1, 7]$

D. $m \in [-5.1, -2.5]$ $b \in [-20, -14]$

E. $m \in [2, 4.3]$ $b \in [9, 16]$
