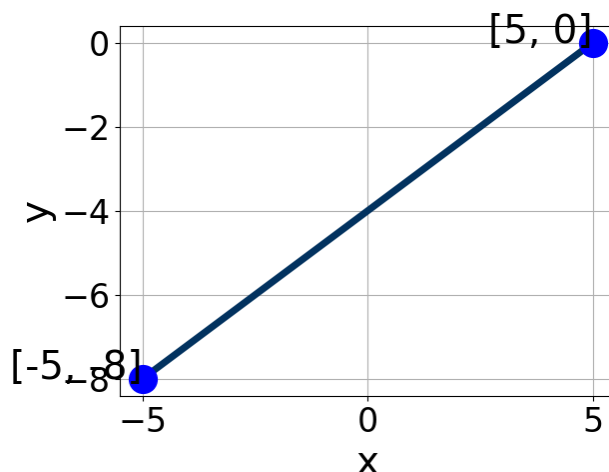1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.

A. $A \in [-3.8, 0.2]$, $B \in [-1, 0]$, and $C \in [3, 5]$

B. $A \in [0, 8]$, $B \in [-11, -4]$, and $C \in [20, 21]$

C. $A \in [-4, -3]$, $B \in [5, 8]$, and $C \in [-20, -19]$

D. $A \in [0, 8]$, $B \in [5, 8]$, and $C \in [-20, -19]$

E. $A \in [-3.8, 0.2]$, $B \in [1, 4]$, and $C \in [-6, -1]$

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2. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{3x + 9}{2} - \frac{-7x + 7}{6} = \frac{5x + 3}{3}$$

A. $x \in [-7.3, -3.5]$

B. $x \in [-4.3, -0.6]$

C. $x \in [0.4, 2.9]$

D. $x \in [-1.5, -0.2]$

E. There are no real solutions.

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

solution.

$$-2(-6x + 11) = -3(-7x - 4)$$

A. $x \in [-2.2, -0.5]$

B. $x \in [-0.1, 0.8]$

C. $x \in [-4.2, -3]$

D. $x \in [0.9, 2.1]$

E. There are no real solutions.

4. 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 $5x + 4y = 3$ and passing through the point $(3, 4)$.

A. $m \in [-1.4, -0.9] \quad b \in [-8.88, -7.26]$

B. $m \in [0.6, 1.57] \quad b \in [-0.57, 0.55]$

C. $m \in [-0.82, -0.39] \quad b \in [7.47, 8.06]$

D. $m \in [-1.4, -0.9] \quad b \in [0.62, 1.33]$

E. $m \in [-1.4, -0.9] \quad b \in [7.47, 8.06]$

5. 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.
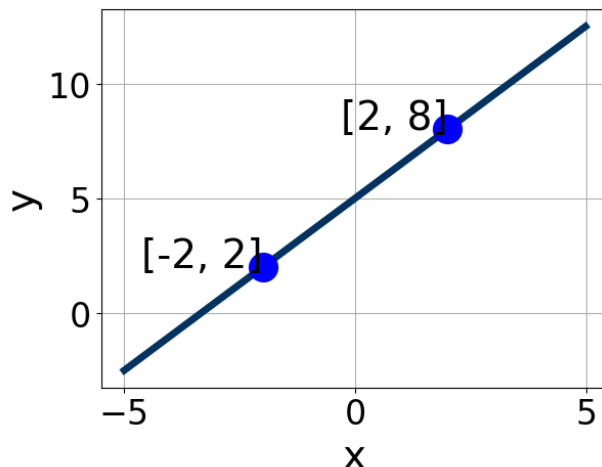
A. $A \in [1.8, 5.8]$, $B \in [1.84, 2.16]$, and $C \in [9.3, 10.3]$

B. $A \in [1.8, 5.8]$, $B \in [-2.42, -1.69]$, and $C \in [-12.8, -7.6]$

C. $A \in [-3.3, -2.8]$, $B \in [1.84, 2.16]$, and $C \in [9.3, 10.3]$

D. $A \in [-2.6, 0.7]$, $B \in [-1.1, 0.01]$, and $C \in [-5.6, -1.5]$

E. $A \in [-2.6, 0.7]$, $B \in [0.99, 1.4]$, and $C \in [3.2, 6.4]$

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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.

$$(2, -3) \text{ and } (5, 6)$$

A. $m \in [1, 7]$ $b \in [1, 5]$

B. $m \in [1, 7]$ $b \in [-10, -8]$

C. $m \in [1, 7]$ $b \in [-6, -4]$

D. $m \in [1, 7]$ $b \in [5, 15]$

E. $m \in [-5, -1]$ $b \in [19, 27]$

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

$$\frac{9x - 5}{6} - \frac{-8x + 7}{4} = \frac{3x + 9}{2}$$

A. $x \in [1.43, 2.09]$

B. $x \in [10.11, 11.01]$

C. $x \in [3.26, 4.15]$

D. $x \in [0.28, 1.05]$

E. There are no real solutions.

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

$$-17(-12x + 4) = -13(-10x - 16)$$

A. $x \in [-1.6, 1.3]$

B. $x \in [1.5, 2.1]$

C. $x \in [-2.6, -0.8]$

D. $x \in [2.2, 5.7]$

E. There are no real solutions.

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9. 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 $4x + 9y = 6$ and passing through the point $(-7, 7)$.

A. $m \in [-1.29, -0.13]$ $b \in [13, 18]$

B. $m \in [-1.29, -0.13]$ $b \in [2.89, 4.89]$

C. $m \in [-1.29, -0.13]$ $b \in [-6.89, 3.11]$

D. $m \in [0.05, 1.31]$ $b \in [8.11, 13.11]$

E. $m \in [-3.06, -2.1]$ $b \in [2.89, 4.89]$

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10. 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.

$$(8, 5) \text{ and } (6, -10)$$

A. $m \in [-1.5, 9.5]$ $b \in [-55, -53]$

B. $m \in [-1.5, 9.5]$ $b \in [53, 58]$

C. $m \in [-1.5, 9.5]$ $b \in [-3, -2]$

D. $m \in [-7.5, -3.5]$ $b \in [29, 40]$

E. $m \in [-1.5, 9.5]$ $b \in [-18, -15]$