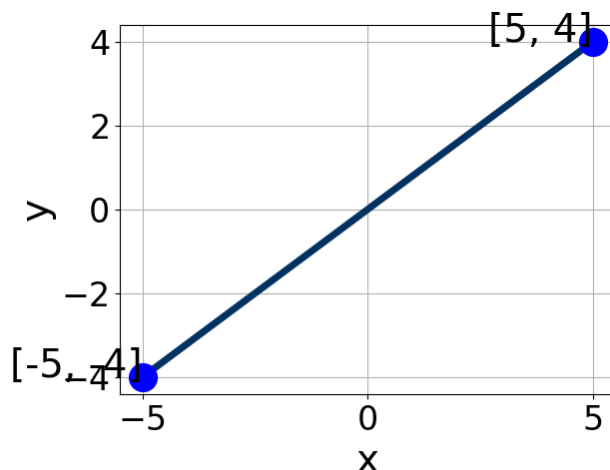1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.

A. $A \in [3, 5]$, $B \in [-5.03, -4.97]$, and $C \in [-2, 3]$

B. $A \in [3, 5]$, $B \in [3.12, 5.64]$, and $C \in [-2, 3]$

C. $A \in [-1.8, 1.2]$, $B \in [0.01, 1.76]$, and $C \in [-2, 3]$

D. $A \in [-9, -2]$, $B \in [3.12, 5.64]$, and $C \in [-2, 3]$

E. $A \in [-1.8, 1.2]$, $B \in [-2.65, -0.66]$, and $C \in [-2, 3]$

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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 $9x + 7y = 4$ and passing through the point $(-7, 3)$.

A. $m \in [0.66, 1.06]$ $b \in [-9.3, -8.1]$

B. $m \in [1.26, 1.34]$ $b \in [7.3, 9.7]$

C. $m \in [0.66, 1.06]$ $b \in [9.9, 10.9]$

D. $m \in [-0.95, -0.68]$ $b \in [-3.7, -1.3]$

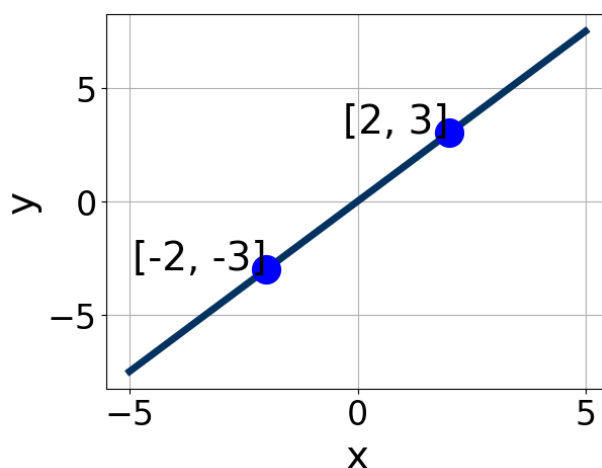E. $m \in [0.66, 1.06]$ $b \in [7.3, 9.7]$

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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.

$$(3, -6) \text{ and } (-9, 2)$$

A. $m \in [-1, 0]$ $b \in [-4.8, -3.9]$

B. $m \in [-1, 0]$ $b \in [-12.3, -7.9]$

C. $m \in [-1, 0]$ $b \in [0.9, 5.8]$

D. $m \in [-1, 0]$ $b \in [9.9, 12.7]$

E. $m \in [-0.2, 1]$ $b \in [7.2, 10.9]$

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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. $A \in [2.93, 4.32]$, $B \in [-2.8, -1.34]$, and $C \in [-7, 5]$

B. $A \in [-2.44, -0.87]$, $B \in [0.99, 1.1]$, and $C \in [-7, 5]$

C. $A \in [-3.12, -2.53]$, $B \in [1.46, 2.3]$, and $C \in [-7, 5]$

D. $A \in [-2.44, -0.87]$, $B \in [-1.65, -0.5]$, and $C \in [-7, 5]$

E. $A \in [2.93, 4.32]$, $B \in [1.46, 2.3]$, and $C \in [-7, 5]$

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

$$-13(19x - 9) = -11(10x + 3)$$

A. $x \in [-0.71, -0.6]$

B. $x \in [0.1, 0.26]$

C. $x \in [0.81, 1.23]$

D. $x \in [0.29, 1.05]$

E. There are no real solutions.

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6. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{5x - 5}{6} - \frac{6x - 5}{4} = \frac{-9x - 9}{8}$$

A. $x \in [0.5, 4.9]$

B. $x \in [-20.5, -18.9]$

C. $x \in [-4.4, -3.2]$

D. $x \in [-1.5, 0.3]$

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.
$$(-4, 10) \text{ and } (3, -5)$$

A. $m \in [-3.14, -1.14]$ $b \in [10.9, 15.7]$

B. $m \in [-3.14, -1.14]$ $b \in [-2.9, -0.3]$

C. $m \in [-3.14, -1.14]$ $b \in [-10.6, -6]$

D. $m \in [0.14, 6.14]$ $b \in [-13.5, -11.3]$

E. $m \in [-3.14, -1.14]$ $b \in [-1.3, 2.2]$

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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.

   Perpendicular to $3x - 7y = 4$ and passing through the point $(-4, -8)$.

   A. $m \in [-3.6, -2.2]$ $b \in [-5, -2]$

   B. $m \in [-1.2, 0.4]$ $b \in [-20.33, -13.33]$

   C. $m \in [2.2, 2.5]$ $b \in [-3.67, 7.33]$

   D. $m \in [-3.6, -2.2]$ $b \in [-20.33, -13.33]$

   E. $m \in [-3.6, -2.2]$ $b \in [16.33, 22.33]$

9. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{4x - 5}{8} - \frac{8x + 7}{5} = \frac{-7x + 9}{7}$$

   A. $x \in [-5.11, -4.11]$

   B. $x \in [-213, -209]$

   C. $x \in [1.1, 6.1]$

   D. $x \in [-36.11, -29.11]$

   E. There are no real solutions.

10. Solve the equation below. Then, choose the interval that contains the solution.
$$-6(-4x + 19) = -13(15x + 2)$$

   A. $x \in [-0.92, -0.74]$

   B. $x \in [0.29, 0.43]$

   C. $x \in [0.58, 0.77]$

   D. $x \in [-0.8, -0.57]$

   E. There are no real solutions.