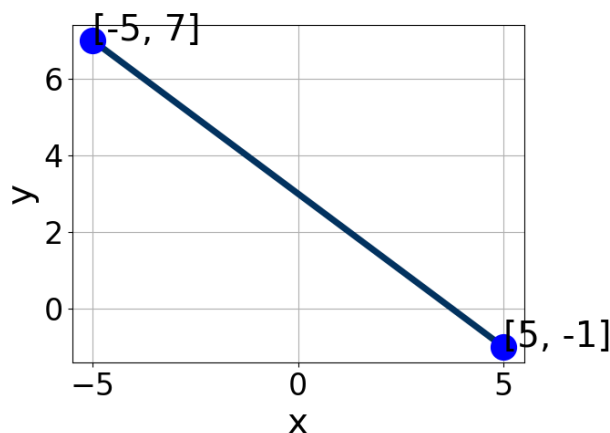1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.

A. $A \in [2.6, 4.4], \quad B \in [3.5, 8.3],$ and $\quad C \in [10, 16]$

B. $A \in [-4.4, -2.3], \quad B \in [-5.5, -2.5],$ and $\quad C \in [-16, -13]$

C. $A \in [-0.1, 2.9], \quad B \in [-2.8, -0.9],$ and $\quad C \in [-8, 0]$

D. $A \in [-0.1, 2.9], \quad B \in [0.2, 2.2],$ and $\quad C \in [2, 7]$

E. $A \in [2.6, 4.4], \quad B \in [-5.5, -2.5],$ and $\quad C \in [-16, -13]$

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2. 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.

$$(3, -5) \text{ and } (-11, 8)$$

A. $m \in [-2.1, 0.9] \quad b \in [-2.29, -1.64]$

B. $m \in [-2.1, 0.9] \quad b \in [1.73, 2.37]$

C. $m \in [0.6, 3.8] \quad b \in [17.97, 18.25]$

D. $m \in [-2.1, 0.9] \quad b \in [-8.98, -5.83]$

E. $m \in [-2.1, 0.9] \quad b \in [18.24, 20.96]$

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

solution.

$$-2(-4x + 15) = -18(-10x - 12)$$

A. $x \in [-1.06, -0.85]$

B. $x \in [-1.6, -1.15]$

C. $x \in [-1.11, -1.02]$

D. $x \in [0.98, 1.3]$

E. There are no real solutions.

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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 $9x + 8y = 14$ and passing through the point $(-2, -3)$.

A. $m \in [-0.91, -0.2]$ $b \in [-5.36, -5.07]$

B. $m \in [-1.25, -1.02]$ $b \in [-5.36, -5.07]$

C. $m \in [0.75, 1.8]$ $b \in [-0.86, -0.73]$

D. $m \in [-1.25, -1.02]$ $b \in [5.13, 5.58]$

E. $m \in [-1.25, -1.02]$ $b \in [-1.15, -0.99]$

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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.
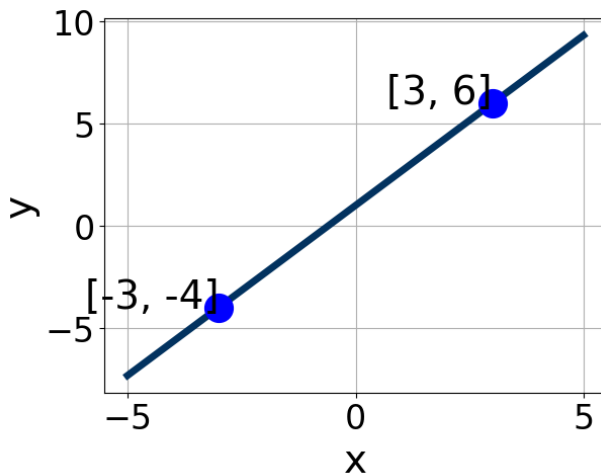
A. $A \in [2,6]$, $B \in [2.02, 3.02]$, and $C \in [2.82, 3.85]$

B. $A \in [2,6]$, $B \in [-3.62, -1.76]$, and $C \in [-3.04, -2.27]$

C. $A \in [-8,-4]$, $B \in [2.02, 3.02]$, and $C \in [2.82, 3.85]$

D. $A \in [-3.67, 0.33]$, $B \in [-2.06, -0.84]$, and $C \in [-2.46, 0.84]$

E. $A \in [-3.67, 0.33]$, $B \in [0.78, 2.33]$, and $C \in [0.85, 1.3]$

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

   A. $m \in [0.6, 3.2]$ $b \in [-17, -10]$

   B. $m \in [0.6, 3.2]$ $b \in [23, 26]$

   C. $m \in [0.3, 1.7]$ $b \in [-30, -23]$

   D. $m \in [-4.9, -2.3]$ $b \in [3, 9]$

   E. $m \in [0.6, 3.2]$ $b \in [-30, -23]$

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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.

   $(-8, 9)$ and $(2, -3)$

   A. $m \in [-2.9, -0.5]$ $b \in [-5.01, -4.59]$

   B. $m \in [-2.9, -0.5]$ $b \in [16.67, 17.07]$

   C. $m \in [-2.9, -0.5]$ $b \in [-1.06, -0.5]$

   D. $m \in [-2.9, -0.5]$ $b \in [0.51, 0.76]$

   E. $m \in [0, 1.7]$ $b \in [-5.5, -5.09]$

8. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{-8x + 9}{4} - \frac{-6x + 3}{7} = \frac{-8x - 5}{6}$$

   A. $x \in [-57.75, -55.75]$

   B. $x \in [-14.94, -9.94]$

   C. $x \in [-19.44, -16.44]$

   D. $x \in [-2.44, 4.56]$

   E. There are no real solutions.

9. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{-7x + 8}{3} - \frac{-3x + 3}{2} = \frac{-9x + 4}{8}$$

   A. $x \in [-13.07, -12.15]$

   B. $x \in [-0.35, 0.8]$

   C. $x \in [-3.53, -2.81]$

   D. $x \in [-3.23, -1.57]$

   E. There are no real solutions.

10. Solve the equation below. Then, choose the interval that contains the solution.
$$-16(-13x + 8) = -19(12x - 14)$$

   A. $x \in [0.51, 1.39]$

   B. $x \in [6.33, 7.34]$

   C. $x \in [-0.71, 0]$

   D. $x \in [0.24, 0.65]$

   E. There are no real solutions.