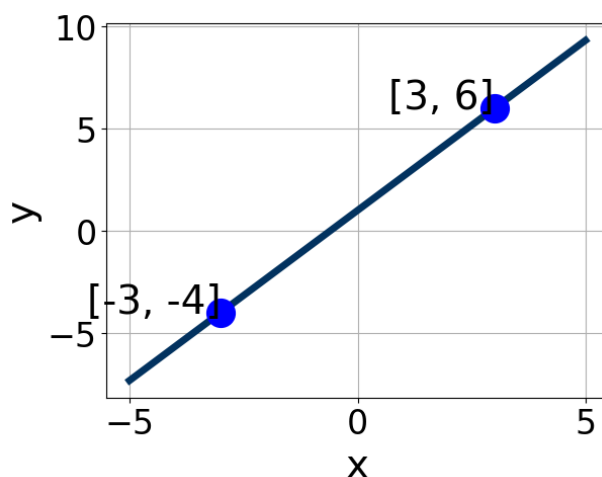1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.

A. $A \in [-4.67, 2.33], \quad B \in [-1.4, -0.58], \quad$ and $\quad C \in [-1.82, -0.53]$

B. $A \in [5, 9], \quad B \in [-3.46, -2.21], \quad$ and $\quad C \in [-3.33, -2.68]$

C. $A \in [5, 9], \quad B \in [1.87, 4.09], \quad$ and $\quad C \in [1.53, 3.37]$

D. $A \in [-6, -4], \quad B \in [1.87, 4.09], \quad$ and $\quad C \in [1.53, 3.37]$

E. $A \in [-4.67, 2.33], \quad B \in [0.29, 2.29], \quad$ and $\quad C \in [-0.08, 1.04]$

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

$$-11(-3x + 8) = -16(2x - 9)$$

A. $x \in [-0.2, 1.7]$

B. $x \in [-57, -54.4]$

C. $x \in [2.2, 3.9]$

D. $x \in [-1.7, 0.5]$

E. There are no real solutions.

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

the solution.
$$\frac{-9x-6}{5} - \frac{-3x-7}{8} = \frac{-9x+7}{6}$$

A. $x \in [18.89, 21.89]$

B. $x \in [42.22, 46.22]$

C. $x \in [-2.5, 1.5]$

D. $x \in [80, 83]$

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.

   Perpendicular to $7x - 6y = 15$ and passing through the point $(-6, -5)$.

   A. $m \in [-1.11, -0.76]$ $b \in [0.98, 1.65]$

   B. $m \in [-1.11, -0.76]$ $b \in [9.36, 11.16]$

   C. $m \in [-1.37, -1.02]$ $b \in [-11.03, -9.97]$

   D. $m \in [-1.11, -0.76]$ $b \in [-11.03, -9.97]$

   E. $m \in [0.68, 1.49]$ $b \in [-0.81, 0.79]$

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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.

   $$(6, -4) \text{ and } (-2, -7)$$

   A. $m \in [-0.2, 3.8]$ $b \in [5.61, 7.1]$

   B. $m \in [-0.2, 3.8]$ $b \in [-6.9, -5.43]$

   C. $m \in [-0.2, 3.8]$ $b \in [-11.84, -9.25]$

   D. $m \in [-0.2, 3.8]$ $b \in [-5.43, -4.92]$

   E. $m \in [-1, 0.2]$ $b \in [-8.76, -7.56]$

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

   A. $x \in [5.89, 9.89]$

   B. $x \in [-2.46, 4.54]$

   C. $x \in [30, 32]$

   D. $x \in [-6.61, -3.61]$

   E. There are no real solutions.

7. 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 $6x - 7y = 6$ and passing through the point $(5, 3)$.

   A. $m \in [0.74, 0.88]$ $b \in [-1.3, 0]$

   B. $m \in [-1.19, -0.74]$ $b \in [5.4, 8.3]$

   C. $m \in [0.74, 0.88]$ $b \in [-2.6, -1.8]$

   D. $m \in [0.74, 0.88]$ $b \in [0.4, 4.4]$

   E. $m \in [0.86, 1.32]$ $b \in [-1.3, 0]$

8. Solve the equation below. Then, choose the interval that contains the solution.
$$-10(-8x + 19) = -3(7x + 5)$$

   A. $x \in [1.64, 1.84]$

   B. $x \in [1.92, 2.14]$

   C. $x \in [-2.24, -1.98]$

   D. $x \in [3.28, 3.51]$

   E. There are no real solutions.

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.

$$(5, 7) \text{ and } (6, 5)$$

A. $m \in [-4, 1]$ $b \in [0.6, 2.5]$

B. $m \in [-4, 1]$ $b \in [-18.7, -16]$

C. $m \in [-4, 1]$ $b \in [-3.3, 0.8]$

D. $m \in [-1, 10]$ $b \in [-7.8, -5.1]$

E. $m \in [-4, 1]$ $b \in [16.7, 19.1]$

10. 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.
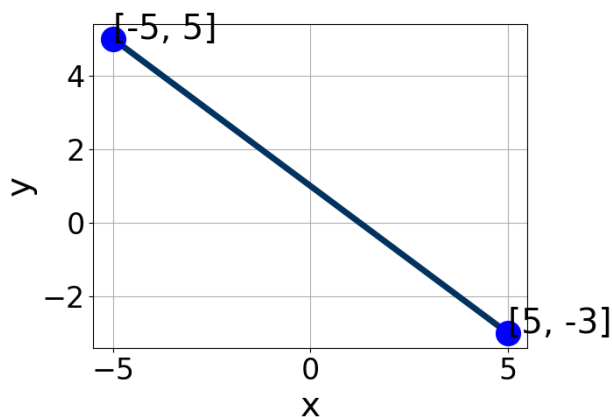
A. $A \in [-5, -2]$, $B \in [-5.49, -3.73]$, and $C \in [-5.7, -2.9]$

B. $A \in [2, 6]$, $B \in [-5.49, -3.73]$, and $C \in [-5.7, -2.9]$

C. $A \in [-3.2, 3.8]$, $B \in [-1.53, 0.74]$, and $C \in [-4.4, 0.8]$

D. $A \in [-3.2, 3.8]$, $B \in [0.53, 3.2]$, and $C \in [0.6, 1.1]$

E. $A \in [2, 6]$, $B \in [3.33, 5.56]$, and $C \in [3.6, 6.5]$