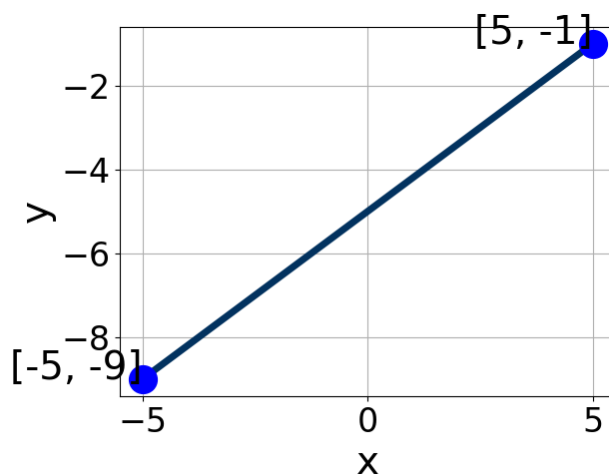1. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b.

$$(3, -4) \text{ and } (-9, -9)$$

A. $m \in [0.27, 1.6]$ $b \in [-6.2, -4.1]$

B. $m \in [-0.58, 0.02]$ $b \in [-12.9, -8.7]$

C. $m \in [0.27, 1.6]$ $b \in [-7.7, -6.9]$

D. $m \in [0.27, 1.6]$ $b \in [-0.9, 0.2]$

E. $m \in [0.27, 1.6]$ $b \in [4.7, 5.7]$

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2. 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. $A \in [-4, -1]$, $B \in [4.2, 5.9]$, and $C \in [-28, -24]$

B. $A \in [-3.8, 3.2]$, $B \in [-1.8, 0]$, and $C \in [1, 6]$

C. $A \in [1, 5]$, $B \in [-7.5, -3.6]$, and $C \in [23, 26]$

D. $A \in [1, 5]$, $B \in [4.2, 5.9]$, and $C \in [-28, -24]$

E. $A \in [-3.8, 3.2]$, $B \in [0.5, 4.4]$, and $C \in [-12, -3]$

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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.

$$(6, 2) \text{ and } (-11, 10)$$

A. $m \in [-1.45, 0.23]$ $b \in [-8.5, -4.7]$

B. $m \in [0.26, 0.51]$ $b \in [13.4, 17.7]$

C. $m \in [-1.45, 0.23]$ $b \in [-4.8, -0.2]$

D. $m \in [-1.45, 0.23]$ $b \in [19.1, 22.9]$

E. $m \in [-1.45, 0.23]$ $b \in [3.9, 5.3]$

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

$$-11(10x + 14) = -5(8x + 15)$$

A. $x \in [-3.31, -2.22]$

B. $x \in [-1.41, -0.84]$

C. $x \in [-1.55, -1.45]$

D. $x \in [2.49, 3.39]$

E. There are no real solutions.

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

$$-13(-19x + 17) = -9(-11x - 18)$$

A. $x \in [-0.02, 0.19]$

B. $x \in [2.36, 2.61]$

C. $x \in [0.23, 0.59]$

D. $x \in [-0.59, -0.2]$

E. There are no real solutions.

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

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

A. $x \in [-18.68, -16.68]$

B. $x \in [-2.45, 3.55]$

C. $x \in [-5.58, -3.58]$

D. $x \in [2.26, 6.26]$

E. There are no real solutions.

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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.

Perpendicular to $5x+6y = 11$ and passing through the point $(-5, -3)$.

A. $m \in [0.87, 1.62] \quad b \in [1.5, 2.9]$

B. $m \in [0.59, 1.11] \quad b \in [2.1, 3.8]$

C. $m \in [0.87, 1.62] \quad b \in [2.1, 3.8]$

D. $m \in [-2.03, -0.73] \quad b \in [-9.5, -8.2]$

E. $m \in [0.87, 1.62] \quad b \in [-3.5, -0.6]$

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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 $9x + 8y = 15$ and passing through the point $(5, 4)$.

A. $m \in [-4, -1] \quad b \in [-1.08, -0.21]$

B. $m \in [-1, 0.5] \quad b \in [9.11, 10.01]$

C. $m \in [-0.5, 1.5] \quad b \in [-2, -1.44]$

D. $m \in [-4, -1] \quad b \in [-10.38, -9.31]$

E. $m \in [-4, -1] \quad b \in [9.11, 10.01]$

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

$$\frac{-6x - 3}{4} - \frac{-5x - 7}{5} = \frac{4x - 7}{6}$$

A. $x \in [8.61, 9.45]$

B. $x \in [0.47, 1.71]$

C. $x \in [-1.19, -0.43]$

D. $x \in [0.05, 0.55]$

E. There are no real solutions.

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.
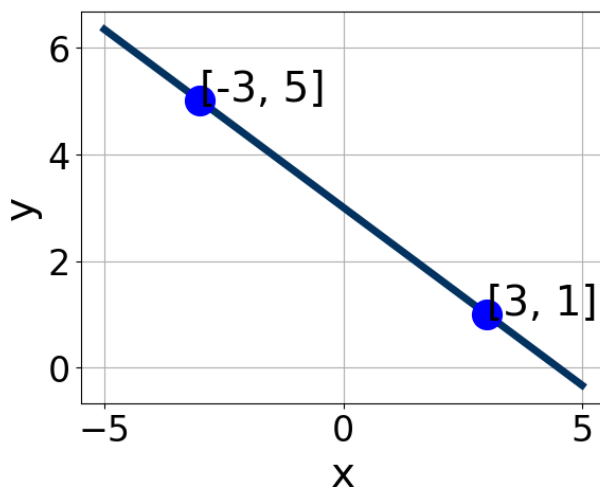
A. $A \in [-0.1, 1]$, $B \in [-1.95, -0.91]$, and $C \in [-5, 1]$

B. $A \in [1.6, 2.8]$, $B \in [1.98, 3.14]$, and $C \in [4, 15]$

C. $A \in [-3, -1.8]$, $B \in [-3.03, -2.25]$, and $C \in [-13, -6]$

D. $A \in [1.6, 2.8]$, $B \in [-3.03, -2.25]$, and $C \in [-13, -6]$

E. $A \in [-0.1, 1]$, $B \in [-0.49, 2.74]$, and $C \in [2, 8]$