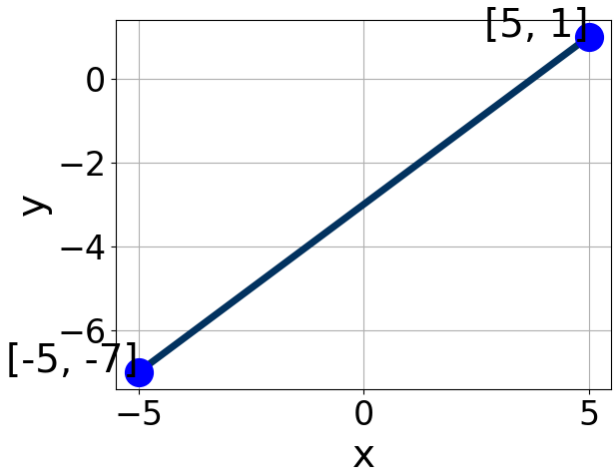
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.8, 2.2]$, $B \in [-0.2, 2.7]$, and $C \in [-3, -2]$

B. $A \in [3, 13]$, $B \in [2.6, 5.3]$, and $C \in [-16, -12]$

C. $A \in [-4, -1]$, $B \in [2.6, 5.3]$, and $C \in [-16, -12]$

D. $A \in [-1.8, 2.2]$, $B \in [-1.1, -0.1]$, and $C \in [1, 4]$

E. $A \in [3, 13]$, $B \in [-8.7, -2]$, and $C \in [9, 17]$

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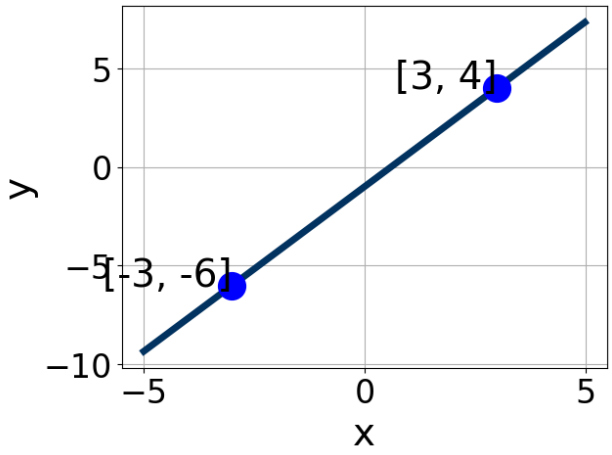
2. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-7.9, -4.6]$, $B \in [2.45, 3.93]$, and $C \in [-3.54, -2.43]$

B. $A \in [4.8, 5.8]$, $B \in [2.45, 3.93]$, and $C \in [-3.54, -2.43]$

C. $A \in [-4, -0.8]$, $B \in [-1.83, 0.68]$, and $C \in [0.46, 1.89]$

D. $A \in [4.8, 5.8]$, $B \in [-3.03, -1.89]$, and $C \in [2.5, 3.87]$

E. $A \in [-4, -0.8]$, $B \in [0.88, 1.98]$, and $C \in [-1.9, 0.29]$

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3. 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 $7x + 8y = 11$ and passing through the point $(-4, 6)$.

   A. $m \in [1.12, 1.35]$ $b \in [-11.04, -10.43]$

   B. $m \in [1.12, 1.35]$ $b \in [9.9, 10.48]$

   C. $m \in [0.51, 1.09]$ $b \in [10.26, 11.23]$

   D. $m \in [1.12, 1.35]$ $b \in [10.26, 11.23]$

   E. $m \in [-1.3, -1.04]$ $b \in [-0.01, 2.22]$

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4. 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.

   $$(-8, 9) \text{ and } (-3, -4)$$

   A. $m \in [-3.6, -0.6]$ $b \in [9.8, 16.8]$

   B. $m \in [-3.6, -0.6]$ $b \in [-8, 0]$

   C. $m \in [-2.4, 3.6]$ $b \in [2.8, 6.8]$

   D. $m \in [-3.6, -0.6]$ $b \in [16, 20]$

   E. $m \in [-3.6, -0.6]$ $b \in [-11.8, -10.8]$

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

   $$-8(18x + 3) = -9(-10x + 2)$$

A. $x \in [-0.31, -0.15]$

B. $x \in [-0.07, -0.02]$

C. $x \in [0.06, 0.23]$

D. $x \in [-0.86, -0.73]$

E. There are no real solutions.

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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 $3x - 4y = 5$ and passing through the point $(-7, -10)$.

A. $m \in [0.4, 1.32]$ $b \in [2.8, 6]$

B. $m \in [1.04, 1.99]$ $b \in [-6, -4.1]$

C. $m \in [0.4, 1.32]$ $b \in [-3.2, -1.3]$

D. $m \in [0.4, 1.32]$ $b \in [-6, -4.1]$

E. $m \in [-0.92, -0.49]$ $b \in [-15.4, -15]$

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

$$-9(5x - 4) = -16(-15x - 3)$$

A. $x \in [-0.3, -0.1]$

B. $x \in [-0.67, -0.31]$

C. $x \in [0.12, 0.41]$

D. $x \in [-0.17, 0.04]$

E. There are no real solutions.

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

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

A. $x \in [5.18, 6.98]$

B. $x \in [-1.7, -0.92]$

C. $x \in [1.74, 2.35]$

D. $x \in [0.45, 1.14]$

E. There are no real solutions.

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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.

$$(10, -9) \text{ and } (-9, -2)$$

A. $m \in [-1.12, 0]$ $b \in [-19.4, -16.8]$

B. $m \in [-1.12, 0]$ $b \in [5.7, 7.1]$

C. $m \in [-1.12, 0]$ $b \in [-7, -3.3]$

D. $m \in [-1.12, 0]$ $b \in [3.9, 6.3]$

E. $m \in [0.33, 0.65]$ $b \in [0.1, 2.4]$

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

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

A. $x \in [15.7, 17.7]$

B. $x \in [40, 45]$

C. $x \in [-2.75, 1.25]$

D. $x \in [32.3, 38.3]$

E. There are no real solutions.
