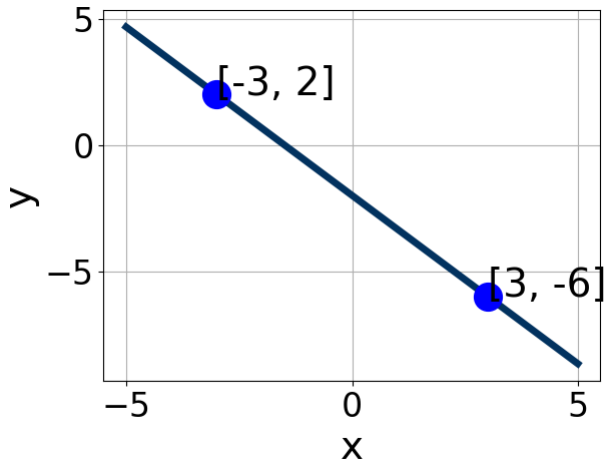
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.1, 3.2]$, $B \in [-2.3, -0.1]$, and $C \in [-1.1, 2.6]$

B. $A \in [3.6, 4.5]$, $B \in [-4.5, -1.3]$, and $C \in [3.8, 8.2]$

C. $A \in [-0.1, 3.2]$, $B \in [0.3, 1.6]$, and $C \in [-3.9, -0.8]$

D. $A \in [-4.2, -3.2]$, $B \in [-4.5, -1.3]$, and $C \in [3.8, 8.2]$

E. $A \in [3.6, 4.5]$, $B \in [1.6, 4.2]$, and $C \in [-8.6, -5.6]$

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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.

$$(-3, 2) \text{ and } (-8, -5)$$

A. $m \in [-5.4, -0.4]$ $b \in [-16.77, -16.03]$

B. $m \in [1.4, 7.4]$ $b \in [6.07, 7.44]$

C. $m \in [1.4, 7.4]$ $b \in [-6.52, -5.39]$

D. $m \in [1.4, 7.4]$ $b \in [2.99, 4.47]$

E. $m \in [1.4, 7.4]$ $b \in [4.84, 5.55]$

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

$$-15(-16x - 4) = -2(10x + 17)$$

A. $x \in [-0.12, -0.11]$

B. $x \in [-0.37, -0.36]$

C. $x \in [-0.1, -0.09]$

D. $x \in [0.09, 0.12]$

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 $8x + 5y = 12$ and passing through the point $(3, -9)$.

A. $m \in [-0.6, 1.2]$ $b \in [-11.88, -9.88]$

B. $m \in [-0.6, 1.2]$ $b \in [-15, -11]$

C. $m \in [-1.1, -0.3]$ $b \in [-8.12, -4.12]$

D. $m \in [0.8, 3.4]$ $b \in [-11.88, -9.88]$

E. $m \in [-0.6, 1.2]$ $b \in [5.88, 15.88]$

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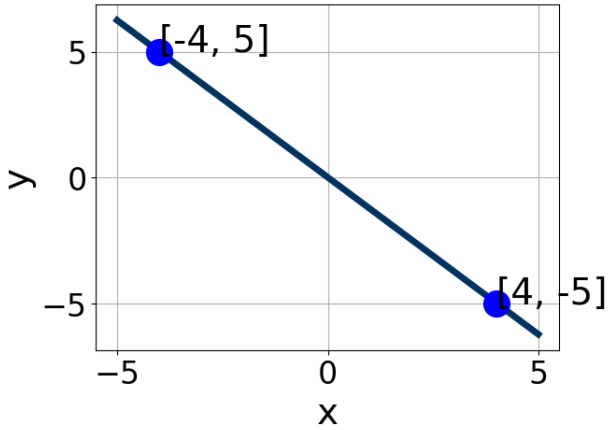
5. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-8, -4]$, $B \in [-5.9, -2.7]$, and $C \in [-1, 5]$

B. $A \in [3, 8]$, $B \in [2, 5.3]$, and $C \in [-1, 5]$

C. $A \in [-4.75, 3.25]$, $B \in [-2.5, 0.8]$, and $C \in [-1, 5]$

D. $A \in [-4.75, 3.25]$, $B \in [0, 3]$, and $C \in [-1, 5]$

E. $A \in [3, 8]$, $B \in [-5.9, -2.7]$, and $C \in [-1, 5]$

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

A. $m \in [-1.21, -0.18]$ $b \in [9.3, 12]$

B. $m \in [0.25, 0.9]$ $b \in [-4, -2.3]$

C. $m \in [0.25, 0.9]$ $b \in [1.3, 2.1]$

D. $m \in [1.03, 2.43]$ $b \in [3.1, 4.4]$

E. $m \in [0.25, 0.9]$ $b \in [3.1, 4.4]$

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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.

   $(4, -6)$ and $(-6, -9)$

A. $m \in [0.02, 0.78]$ $b \in [-4.01, -2.89]$

B. $m \in [0.02, 0.78]$ $b \in [-10.37, -9.02]$

C. $m \in [0.02, 0.78]$ $b \in [6.78, 8.86]$

D. $m \in [-0.36, 0.17]$ $b \in [-10.84, -10.72]$

E. $m \in [0.02, 0.78]$ $b \in [-7.57, -5.34]$

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

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

A. $x \in [-0.9, 0]$

B. $x \in [-2.5, -1.4]$

C. $x \in [-8.7, -7.3]$

D. $x \in [-0.5, 1.8]$

E. There are no real solutions.

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

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

A. $x \in [0.7, 1.9]$

B. $x \in [9.3, 10.2]$

C. $x \in [2.3, 4.6]$

D. $x \in [-2, 0]$

E. There are no real solutions.

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

$$-18(15x+9) = -2(16x-10)$$

A. $x \in [-0.88, -0.64]$

B. $x \in [-0.51, -0.43]$

C. $x \in [0.5, 0.85]$

D. $x \in [-0.68, -0.48]$

E. There are no real solutions.
