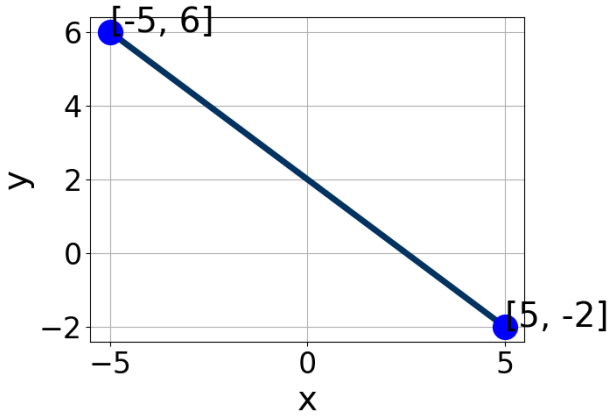
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-9, 0]$, $B \in [-5.4, -3.2]$, and $C \in [-15, -7]$

B. $A \in [4, 5]$, $B \in [1.4, 8.3]$, and $C \in [9, 13]$

C. $A \in [-0.2, 1.8]$, $B \in [-4.4, 0.8]$, and $C \in [-6, 0]$

D. $A \in [-0.2, 1.8]$, $B \in [0.7, 2.1]$, and $C \in [1, 3]$

E. $A \in [4, 5]$, $B \in [-5.4, -3.2]$, and $C \in [-15, -7]$

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2. 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 $6x - 7y = 12$ and passing through the point $(-6, 9)$.

A. $m \in [-1.32, -1.04]$ $b \in [-2.34, -1.24]$

B. $m \in [-1.32, -1.04]$ $b \in [1.63, 2.84]$

C. $m \in [-1.32, -1.04]$ $b \in [14.04, 15.25]$

D. $m \in [-1, -0.63]$ $b \in [1.63, 2.84]$

E. $m \in [0.65, 1.44]$ $b \in [15.67, 16.48]$

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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.

$$(4, 10) \text{ and } (-9, -2)$$

A. $m \in [-2.4, -0.29]$ $b \in [-10.39, -9.79]$

B. $m \in [0.31, 1.9]$ $b \in [5.78, 6.11]$

C. $m \in [0.31, 1.9]$ $b \in [6.61, 7.18]$

D. $m \in [0.31, 1.9]$ $b \in [6.15, 6.33]$

E. $m \in [0.31, 1.9]$ $b \in [-6.81, -6.26]$

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

$$-11(-8x + 9) = -6(-12x - 18)$$

A. $x \in [-0.2, -0.09]$

B. $x \in [-7.6, -7.2]$

C. $x \in [0.75, 1.29]$

D. $x \in [-0.82, -0.56]$

E. There are no real solutions.

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

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

A. $x \in [4.8, 10.8]$

B. $x \in [-2.33, 4.67]$

C. $x \in [17.34, 23.34]$

D. $x \in [23.34, 29.34]$

E. There are no real solutions.

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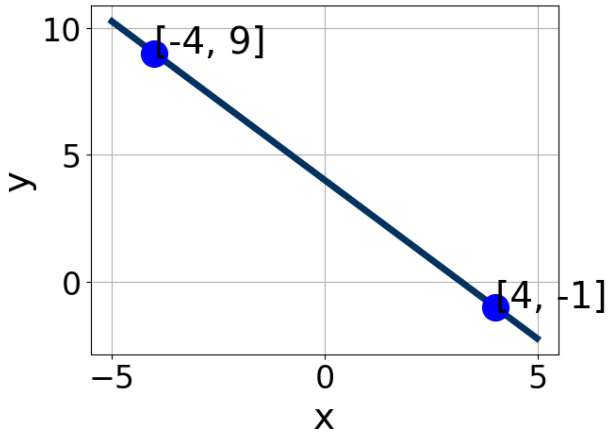
6. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.5, 1.4]$, $B \in [0.64, 1.2]$, and $C \in [1, 14]$

B. $A \in [0.5, 1.4]$, $B \in [-1.53, -0.68]$, and $C \in [-5, 3]$

C. $A \in [3.2, 5.7]$, $B \in [3.92, 4.65]$, and $C \in [12, 18]$

D. $A \in [-5.1, -1.3]$, $B \in [-4.91, -3.42]$, and $C \in [-16, -12]$

E. $A \in [3.2, 5.7]$, $B \in [-4.91, -3.42]$, and $C \in [-16, -12]$

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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 $9x + 4y = 14$ and passing through the point $(9, 5)$.

A. $m \in [0.19, 1.41]$ $b \in [-5.5, -2.8]$

B. $m \in [0.19, 1.41]$ $b \in [-0.1, 1.5]$

C. $m \in [0.19, 1.41]$ $b \in [-2.8, 0.3]$

D. $m \in [-1.39, 0.09]$ $b \in [7.4, 9.5]$

E. $m \in [1.21, 2.78]$ $b \in [-0.1, 1.5]$

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8. 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.

$$(-3, -7) \text{ and } (4, 4)$$

A. $m \in [1.57, 4.57]$ $b \in [-2.1, 0.1]$

B. $m \in [1.57, 4.57]$ $b \in [-2.4, -1.7]$

C. $m \in [1.57, 4.57]$ $b \in [0.6, 2.6]$

D. $m \in [1.57, 4.57]$ $b \in [-6, -3.8]$

E. $m \in [-5.57, 1.43]$ $b \in [8.9, 11.9]$

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

$$-12(10x + 5) = -3(19x - 14)$$

A. $x \in [-54.4, -52]$

B. $x \in [-26.7, -24.5]$

C. $x \in [0.6, 2.3]$

D. $x \in [-3.1, -1.3]$

E. There are no real solutions.

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

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

A. $x \in [3.7, 6.1]$

B. $x \in [-0.9, 1]$

C. $x \in [6.8, 8.4]$

D. $x \in [1, 2.9]$

E. There are no real solutions.
