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

$$-5(16x + 11) = -3(-7x + 15)$$

A. $x \in [-1.71, -1.34]$

B. $x \in [-0.79, 0.08]$

C. $x \in [-1.43, -0.56]$

D. $x \in [0.95, 1.56]$

E. There are no real solutions.

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

$$-2(-12x + 15) = -17(7x + 13)$$

A. $x \in [-1.52, -0.99]$

B. $x \in [-1.96, -1.43]$

C. $x \in [1.34, 2.24]$

D. $x \in [-3, -2.58]$

E. There are no real solutions.

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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.

$$(2, -7) \text{ and } (-8, 11)$$

A. $m \in [-3.8, 0.2]$ $b \in [-5.4, 2.6]$

B. $m \in [-3.8, 0.2]$ $b \in [-16, -7]$

C. $m \in [0.8, 6.8]$ $b \in [23.4, 28.4]$

D. $m \in [-3.8, 0.2]$ $b \in [15, 20]$

E. $m \in [-3.8, 0.2]$ $b \in [3.4, 4.4]$

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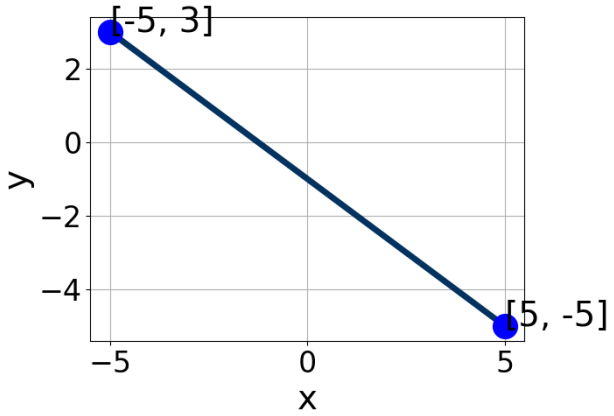
4. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-6.9, -2.4]$, $B \in [-6.4, -4.7]$, and $C \in [3.2, 5.8]$

B. $A \in [2.4, 4.7]$, $B \in [2.6, 7.6]$, and $C \in [-8.7, -4.7]$

C. $A \in [2.4, 4.7]$, $B \in [-6.4, -4.7]$, and $C \in [3.2, 5.8]$

D. $A \in [0.7, 1.7]$, $B \in [-0.2, 2.1]$, and $C \in [-3.7, 0.5]$

E. $A \in [0.7, 1.7]$, $B \in [-1.5, 0.9]$, and $C \in [0, 4.4]$

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

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

A. $x \in [36.8, 38.8]$

B. $x \in [2.85, 5.85]$

C. $x \in [0.5, 2.5]$

D. $x \in [6.45, 9.45]$

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 $5x - 6y = 10$ and passing through the point $(-4, 5)$.

A. $m \in [-1.18, -0.31]$ $b \in [0.17, 1.74]$

B. $m \in [0.59, 0.97]$ $b \in [8.39, 9.99]$

C. $m \in [0.59, 0.97]$ $b \in [7.88, 8.83]$

D. $m \in [0.59, 0.97]$ $b \in [-9.33, -7.16]$

E. $m \in [1.16, 1.33]$ $b \in [7.88, 8.83]$

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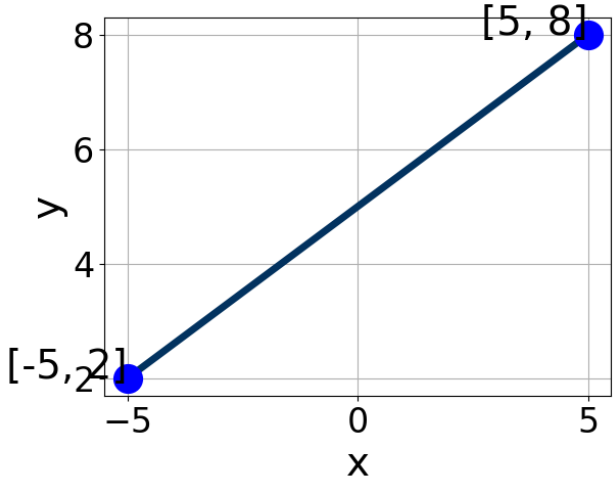
7. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.6, 3.6]$, $B \in [4.94, 5.13]$, and $C \in [20, 27]$

B. $A \in [2.6, 3.6]$, $B \in [-5.8, -3.2]$, and $C \in [-26, -18]$

C. $A \in [-1.9, 2.2]$, $B \in [-1.49, 0.32]$, and $C \in [-6, -1]$

D. $A \in [-3.2, -0.7]$, $B \in [4.94, 5.13]$, and $C \in [20, 27]$

E. $A \in [-1.9, 2.2]$, $B \in [-0.19, 1.47]$, and $C \in [-1, 11]$

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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 $4x + 7y = 12$ and passing through the point $(-10, 2)$.

A. $m \in [-1.3, 0.1]$ $b \in [10, 14]$

B. $m \in [-1.3, 0.1]$ $b \in [-4.71, 0.29]$

C. $m \in [-1.3, 0.1]$ $b \in [1.71, 4.71]$

D. $m \in [0, 1.3]$ $b \in [7.71, 8.71]$

E. $m \in [-3.2, -0.8]$ $b \in [-4.71, 0.29]$

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

$$\frac{-7x-8}{3} - \frac{-5x+6}{2} = \frac{6x-4}{7}$$

A. $x \in [-9.38, -2.38]$

B. $x \in [-16.48, -9.48]$

C. $x \in [1.31, 2.31]$

D. $x \in [-0.64, 0.36]$

E. There are no real solutions.

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10. 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.

$$(5, 4) \text{ and } (-4, 11)$$

A. $m \in [-1.08, -0.59]$ $b \in [-8.45, -7.57]$

B. $m \in [-1.08, -0.59]$ $b \in [-1.12, -0.58]$

C. $m \in [-1.08, -0.59]$ $b \in [7.28, 8.27]$

D. $m \in [-1.08, -0.59]$ $b \in [14.41, 15.21]$

E. $m \in [0.46, 1.05]$ $b \in [13.91, 14.85]$
