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

$$-5(18x + 11) = -15(-14x - 7)$$

A. $x \in [-1.07, -0.43]$

B. $x \in [0.11, 0.19]$

C. $x \in [-0.52, -0.21]$

D. $x \in [-0.23, 0.05]$

E. There are no real solutions.

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

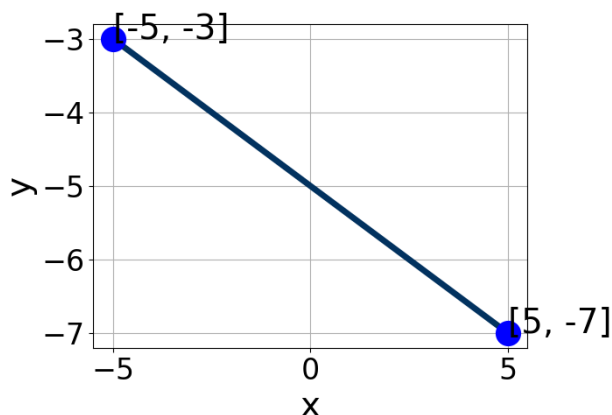$$\frac{-5x - 6}{8} - \frac{5x - 3}{3} = \frac{-9x - 7}{5}$$

A. $x \in [2, 4.4]$

B. $x \in [0.1, 3.1]$

C. $x \in [-1.6, 0.4]$

D. $x \in [7.2, 9.2]$

E. There are no real solutions.

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

$$-11(15x - 9) = -2(-5x + 18)$$

A. $x \in [0.38, 0.42]$

B. $x \in [-0.39, -0.31]$

C. $x \in [0.28, 0.4]$

D. $x \in [0.71, 0.84]$

E. There are no real solutions.

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. $A \in [-0.13, 1.46]$, $B \in [0.9, 3.2]$, and $C \in [-5, -4]$

B. $A \in [1, 3.62]$, $B \in [3.5, 5.4]$, and $C \in [-31, -23]$

C. $A \in [1, 3.62]$, $B \in [-7.8, -1.5]$, and $C \in [23, 27]$

D. $A \in [-3.6, -1.74]$, $B \in [-7.8, -1.5]$, and $C \in [23, 27]$

E. $A \in [-0.13, 1.46]$, $B \in [-4.7, 0.5]$, and $C \in [5, 11]$

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5. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{7x + 8}{4} - \frac{6x - 4}{7} = \frac{7x + 4}{6}$$

A. $x \in [1.3, 2.9]$

B. $x \in [0.1, 1.1]$

C. $x \in [28.5, 30.9]$

D. $x \in [6.8, 7.5]$

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.

Perpendicular to $7x + 5y = 14$ and passing through the point $(-2, -5)$.

A. $m \in [0.71, 0.74]$ $b \in [-3.55, -2.81]$

B. $m \in [0.71, 0.74]$ $b \in [-4.18, -3.37]$

C. $m \in [0.71, 0.74]$ $b \in [3.33, 3.91]$

D. $m \in [0.93, 1.67]$ $b \in [-4.18, -3.37]$

E. $m \in [-1.51, -0.24]$ $b \in [-6.55, -6.13]$

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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.

   Parallel to $3x + 5y = 13$ and passing through the point $(-5, -10)$.

   A. $m \in [-1.23, 0.45]$ $b \in [-6.3, -3.9]$

   B. $m \in [-1.23, 0.45]$ $b \in [-13.4, -10.5]$

   C. $m \in [-1.23, 0.45]$ $b \in [11.9, 13.2]$

   D. $m \in [-2.34, -0.92]$ $b \in [-13.4, -10.5]$

   E. $m \in [-0.37, 1.46]$ $b \in [-8, -6.3]$

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8. 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.
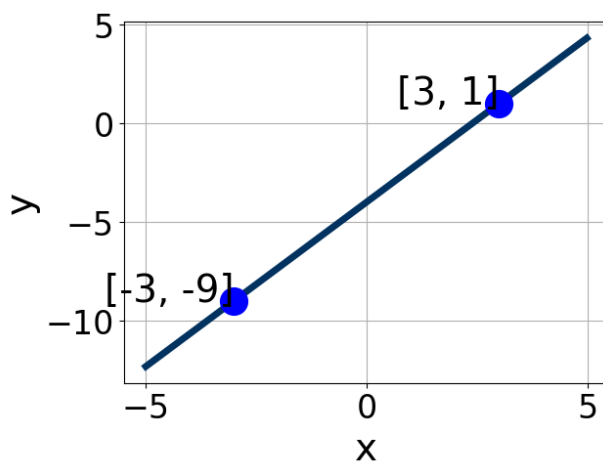
   A. $A \in [-4.8, 1.4]$, $B \in [0.46, 2.5]$, and $C \in [-4, -1]$

   B. $A \in [-5.9, -4.3]$, $B \in [2.76, 3.35]$, and $C \in [-13, -6]$

C. $A \in [-4.8, 1.4]$, $B \in [-1.06, -0.45]$,   and $C \in [4, 10]$

D. $A \in [3.7, 6.9]$, $B \in [2.76, 3.35]$,   and $C \in [-13, -6]$

E. $A \in [3.7, 6.9]$, $B \in [-4.12, -2.96]$,   and $C \in [9, 13]$

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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.

$$(10, 5) \text{ and } (5, 9)$$

A. $m \in [-2.5, 0.7]$ $b \in [12.6, 14.2]$

B. $m \in [-2.5, 0.7]$ $b \in [-6.3, -2.6]$

C. $m \in [-2.5, 0.7]$ $b \in [1.2, 4.2]$

D. $m \in [-0.1, 1.2]$ $b \in [4.9, 5.9]$

E. $m \in [-2.5, 0.7]$ $b \in [-13.4, -11]$

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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.

$$(-9, 4) \text{ and } (3, 2)$$

A. $m \in [-0.59, 0.03]$ $b \in [-2.99, -2.1]$

B. $m \in [-0.07, 0.29]$ $b \in [0.44, 1.9]$

C. $m \in [-0.59, 0.03]$ $b \in [12.53, 13.34]$

D. $m \in [-0.59, 0.03]$ $b \in [2.16, 2.59]$

E. $m \in [-0.59, 0.03]$ $b \in [-1.57, -0.15]$