1. 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.

$$(6, -10) \text{ and } (-11, -11)$$

A. $m \in [0.01, 0.09]$ $b \in [9.3, 11.3]$

B. $m \in [0.01, 0.09]$ $b \in [-10.7, -8.2]$

C. $m \in [0.01, 0.09]$ $b \in [-0.4, 1.2]$

D. $m \in [-0.08, -0.04]$ $b \in [-12.3, -11.3]$

E. $m \in [0.01, 0.09]$ $b \in [-16.9, -13.4]$

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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 $9x+4y = 15$ and passing through the point $(-7, -6)$.

A. $m \in [0.04, 0.75]$ $b \in [2.2, 3.6]$

B. $m \in [1.16, 3.19]$ $b \in [-5.8, -2]$

C. $m \in [0.04, 0.75]$ $b \in [-5.8, -2]$

D. $m \in [0.04, 0.75]$ $b \in [-0.1, 1.4]$

E. $m \in [-1.3, -0.24]$ $b \in [-9.4, -7.9]$

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

$$-10(-17x + 14) = -15(3x + 4)$$

A. $x \in [-1.1, -0.78]$

B. $x \in [1.39, 1.75]$

C. $x \in [0.9, 0.98]$

D. $x \in [-0.69, 0.73]$

E. There are no real solutions.

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

$$\frac{-8x-5}{5} - \frac{-5x+7}{4} = \frac{-9x-6}{8}$$

A. $x \in [-2, -1.7]$

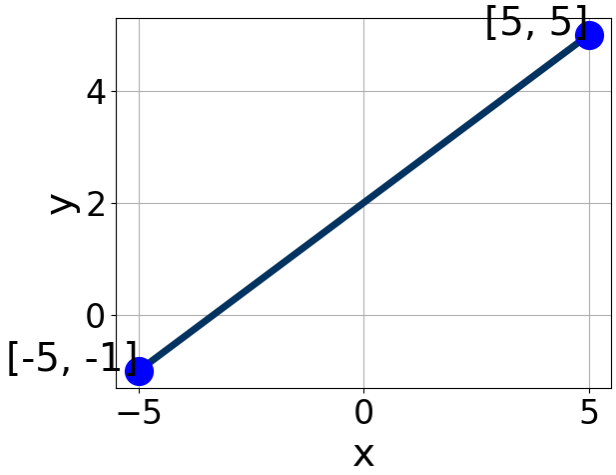
B. $x \in [1.1, 4.2]$

C. $x \in [6.6, 8.1]$

D. $x \in [0, 1.5]$

E. There are no real solutions.

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. $A \in [-2.3, 0.7]$, $B \in [-0.5, 2.9]$, and $C \in [0, 5]$

B. $A \in [-4.6, -2.3]$, $B \in [1.8, 5.8]$, and $C \in [8, 14]$

C. $A \in [-2.3, 0.7]$, $B \in [-1.9, -0.3]$, and $C \in [-7, 1]$

D. $A \in [0.3, 4.3]$, $B \in [1.8, 5.8]$, and $C \in [8, 14]$

E. $A \in [0.3, 4.3]$, $B \in [-7.6, -1.1]$, and $C \in [-11, -8]$

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

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

A. $x \in [-54.83, -50.83]$

B. $x \in [-1.49, 2.51]$

C. $x \in [-15.83, -12.83]$

D. $x \in [-262.5, -261.5]$

E. There are no real solutions.

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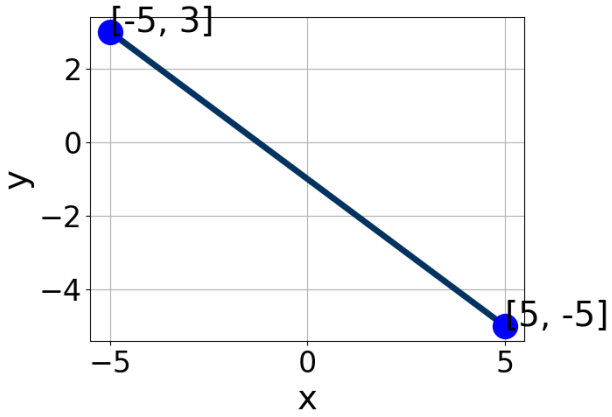
7. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.3, 6.9]$, $B \in [-6.2, -1.2]$, and $C \in [4.97, 6.08]$

B. $A \in [-6.6, -3.6]$, $B \in [-6.2, -1.2]$, and $C \in [4.97, 6.08]$

C. $A \in [0.3, 1]$, $B \in [-1.8, 0.6]$, and $C \in [0.65, 1.54]$

D. $A \in [2.3, 6.9]$, $B \in [4.1, 6.2]$, and $C \in [-6.72, -4.12]$

E. $A \in [0.3, 1]$, $B \in [0.8, 1.6]$, and $C \in [-1.16, -0.54]$

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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.

$$(-5, -9) \text{ and } (-8, -6)$$

A. $m \in [-2.7, 0.9]$ $b \in [12, 17]$

B. $m \in [-2.7, 0.9]$ $b \in [-7, 0]$

C. $m \in [-2.7, 0.9]$ $b \in [-17, -11]$

D. $m \in [-0.7, 1.9]$ $b \in [1, 6]$

E. $m \in [-2.7, 0.9]$ $b \in [1, 6]$

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

$$-2(-9x - 5) = -12(-18x - 8)$$

A. $x \in [0.52, 0.59]$

B. $x \in [-0.56, -0.48]$

C. $x \in [-0.46, -0.45]$

D. $x \in [-0.44, -0.37]$

E. There are no real solutions.

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10. 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 $8x - 5y = 6$ and passing through the point $(-3, 7)$.

A. $m \in [-1.01, 0.54]$ $b \in [-5.42, -4.85]$

B. $m \in [-0.36, 1.13]$ $b \in [8.87, 9.3]$

C. $m \in [-1.01, 0.54]$ $b \in [9.52, 10.75]$

D. $m \in [-1.01, 0.54]$ $b \in [4.1, 5.25]$

E. $m \in [-1.89, -1.08]$ $b \in [4.1, 5.25]$
