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.

$$(-4, 7) \text{ and } (-8, -2)$$

A. $m \in [2.25, 3.25]$ $b \in [16, 21]$

B. $m \in [2.25, 3.25]$ $b \in [7, 12]$

C. $m \in [2.25, 3.25]$ $b \in [3, 8]$

D. $m \in [2.25, 3.25]$ $b \in [-16, -10]$

E. $m \in [-3.25, -0.25]$ $b \in [-25, -18]$

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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 $8x - 3y = 10$ and passing through the point $(2, 10)$.

A. $m \in [-1.3, 0.1]$ $b \in [10.47, 11.43]$

B. $m \in [0.1, 1.8]$ $b \in [8.72, 9.49]$

C. $m \in [-2.8, -1.2]$ $b \in [10.47, 11.43]$

D. $m \in [-1.3, 0.1]$ $b \in [-11.92, -10.38]$

E. $m \in [-1.3, 0.1]$ $b \in [7.18, 9.04]$

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

$$-8(18x + 4) = -17(-3x - 16)$$

A. $x \in [-1.42, -1.22]$

B. $x \in [1.18, 1.39]$

C. $x \in [2.2, 2.88]$

D. $x \in [-1.58, -1.44]$

E. There are no real solutions.

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

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

A. $x \in [1.6, 2.8]$

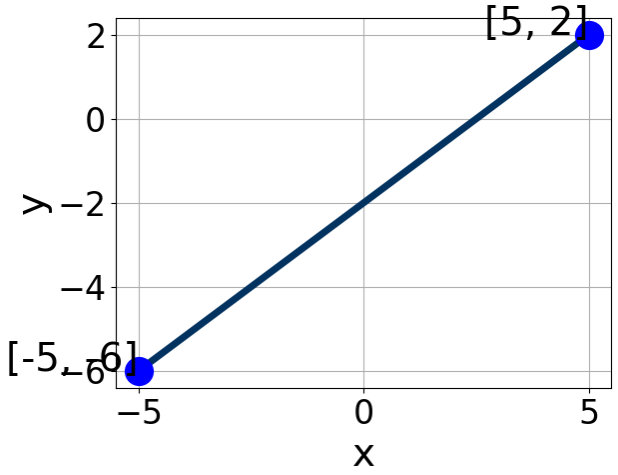
B. $x \in [-1, 1.2]$

C. $x \in [-4.6, -0.4]$

D. $x \in [10.7, 11.8]$

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. $A \in [-0.8, 1.2]$, $B \in [-1.48, -0.51]$, and $C \in [-1, 3]$

B. $A \in [3, 10]$, $B \in [-6.55, -3.96]$, and $C \in [4, 16]$

C. $A \in [-6, -3]$, $B \in [3.98, 5.33]$, and $C \in [-11, -8]$

D. $A \in [-0.8, 1.2]$, $B \in [0.15, 2.17]$, and $C \in [-5, 1]$

E. $A \in [3, 10]$, $B \in [3.98, 5.33]$, and $C \in [-11, -8]$

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

$$\frac{3x-4}{7} - \frac{-6x-9}{8} = \frac{7x-5}{3}$$

A. $x \in [0.5, 2.3]$

B. $x \in [-3.2, -1]$

C. $x \in [-0.5, 1.7]$

D. $x \in [7.7, 9]$

E. There are no real solutions.

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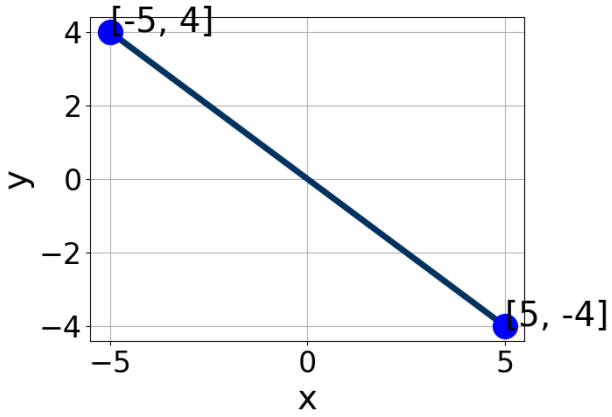
7. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-8, -1]$, $B \in [-6.2, -2.6]$, and $C \in [-5, 1]$

B. $A \in [0.8, 3.8]$, $B \in [-1.5, 0.8]$, and $C \in [-5, 1]$

C. $A \in [2, 7]$, $B \in [-6.2, -2.6]$, and $C \in [-5, 1]$

D. $A \in [2, 7]$, $B \in [3.6, 6.7]$, and $C \in [-5, 1]$

E. $A \in [0.8, 3.8]$, $B \in [-0.1, 1.7]$, and $C \in [-5, 1]$

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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.

$$(6, -7) \text{ and } (-5, -6)$$

A. $m \in [-0.19, 0.07]$ $b \in [-1.93, -0.82]$

B. $m \in [-0.19, 0.07]$ $b \in [-6.99, -6.45]$

C. $m \in [0.01, 0.38]$ $b \in [-6.42, -5.27]$

D. $m \in [-0.19, 0.07]$ $b \in [-13.18, -10.89]$

E. $m \in [-0.19, 0.07]$ $b \in [5.74, 6.94]$

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

$$-7(9x - 18) = -19(16x + 17)$$

A. $x \in [-1.18, -0.65]$

B. $x \in [-2.36, -1.58]$

C. $x \in [-0.78, -0.22]$

D. $x \in [0.57, 1.03]$

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 $3x - 4y = 8$ and passing through the point $(-3, 10)$.

A. $m \in [0.8, 1.72]$ $b \in [13.33, 15.06]$

B. $m \in [-2.46, -1.21]$ $b \in [12.94, 13.33]$

C. $m \in [-0.84, -0.59]$ $b \in [4.97, 7.26]$

D. $m \in [-2.46, -1.21]$ $b \in [4.97, 7.26]$

E. $m \in [-2.46, -1.21]$ $b \in [-7.01, -4.86]$
