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.

$$(9, 11) \text{ and } (2, 7)$$

A. $m \in [0.4, 3.9]$ $b \in [-6.93, -5.19]$

B. $m \in [0.4, 3.9]$ $b \in [4.54, 5.31]$

C. $m \in [0.4, 3.9]$ $b \in [0.45, 3.86]$

D. $m \in [-2.6, -0.2]$ $b \in [7.47, 10.38]$

E. $m \in [0.4, 3.9]$ $b \in [5.09, 6.45]$

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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.

Parallel to $5x + 3y = 9$ and passing through the point $(-5, -6)$.

A. $m \in [-3.7, -1.3]$ $b \in [-18.33, -13.33]$

B. $m \in [0.6, 2.5]$ $b \in [1.33, 8.33]$

C. $m \in [-1.6, 0.8]$ $b \in [-18.33, -13.33]$

D. $m \in [-3.7, -1.3]$ $b \in [-3, 0]$

E. $m \in [-3.7, -1.3]$ $b \in [11.33, 16.33]$

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3. 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 $7x + 9y = 8$ and passing through the point $(-3, -5)$.

A. $m \in [1.12, 1.68]$ $b \in [-2.5, -1.45]$

B. $m \in [0.75, 1.05]$ $b \in [-1.93, -0.4]$

C. $m \in [-1.6, -0.69]$ $b \in [-9.91, -8.29]$

D. $m \in [1.12, 1.68]$ $b \in [0.62, 2.3]$

E. $m \in [1.12, 1.68]$ $b \in [-1.93, -0.4]$

4. 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.

$$(-5, -11) \text{ and } (9, 6)$$

A. $m \in [0.21, 7.21]$ $b \in [-4.17, -2.94]$

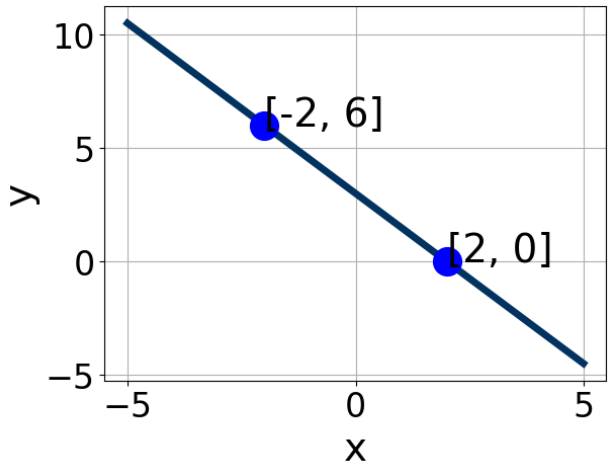
B. $m \in [0.21, 7.21]$ $b \in [-5.13, -4.16]$

C. $m \in [0.21, 7.21]$ $b \in [3.37, 5.08]$

D. $m \in [0.21, 7.21]$ $b \in [-7.23, -5.22]$

E. $m \in [-3.21, -0.21]$ $b \in [16.45, 17.98]$

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. $A \in [1.9, 4.5]$, $B \in [1.56, 2.01]$, and $C \in [5.2, 7.3]$

B. $A \in [1.1, 2.3]$, $B \in [-1.32, -0.27]$, and $C \in [-3.2, -1.7]$

C. $A \in [1.9, 4.5]$, $B \in [-2.06, -1.79]$, and $C \in [-6.8, -4.4]$

D. $A \in [1.1, 2.3]$, $B \in [0.77, 1.29]$, and $C \in [0.2, 4.5]$

E. $A \in [-3.5, -2.2]$, $B \in [-2.06, -1.79]$, and $C \in [-6.8, -4.4]$

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

$$-19(-14x + 6) = -18(10x + 7)$$

A. $x \in [-0.63, -0.32]$

B. $x \in [2.4, 2.82]$

C. $x \in [-0.26, 0.19]$

D. $x \in [0.03, 0.77]$

E. There are no real solutions.

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

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

A. $x \in [-8.86, -1.86]$

B. $x \in [-2.51, 3.49]$

C. $x \in [-24.73, -20.73]$

D. $x \in [5.81, 7.81]$

E. There are no real solutions.

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

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

A. $x \in [25.27, 30.27]$

B. $x \in [-1.64, 4.36]$

C. $x \in [12.39, 13.39]$

D. $x \in [9.46, 11.46]$

E. There are no real solutions.

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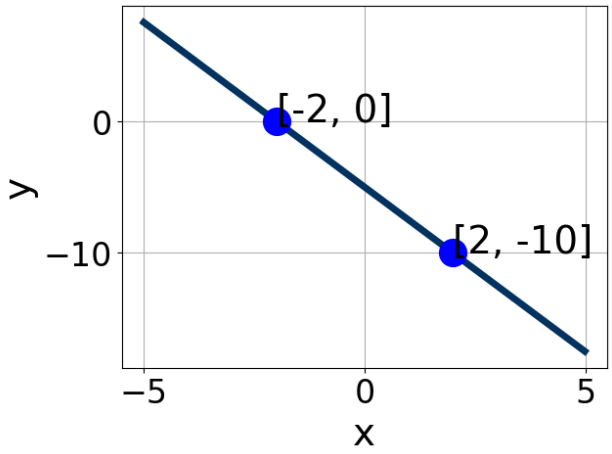
9. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3, 11]$, $B \in [1.78, 3.49]$, and $C \in [-10.6, -8.3]$

B. $A \in [-6, 2]$, $B \in [-2.02, -1.55]$, and $C \in [9.8, 11.3]$

C. $A \in [3, 11]$, $B \in [-2.02, -1.55]$, and $C \in [9.8, 11.3]$

D. $A \in [2.5, 3.5]$, $B \in [0.86, 1.02]$, and $C \in [-6.5, -4.5]$

E. $A \in [2.5, 3.5]$, $B \in [-1.42, 0.16]$, and $C \in [3.7, 5.6]$

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

$$-13(-19x + 11) = -5(-7x - 12)$$

A. $x \in [0.95, 1.06]$

B. $x \in [0.23, 0.39]$

C. $x \in [-0.45, -0.28]$

D. $x \in [0.3, 0.6]$

E. There are no real solutions.
