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.

$$(-2, -7) \text{ and } (7, 10)$$

A. $m \in [0.89, 3.89]$ $b \in [2.76, 3.1]$

B. $m \in [-1.89, 1.11]$ $b \in [23, 23.5]$

C. $m \in [0.89, 3.89]$ $b \in [-5.32, -4.82]$

D. $m \in [0.89, 3.89]$ $b \in [3.02, 3.32]$

E. $m \in [0.89, 3.89]$ $b \in [-3.45, -3]$

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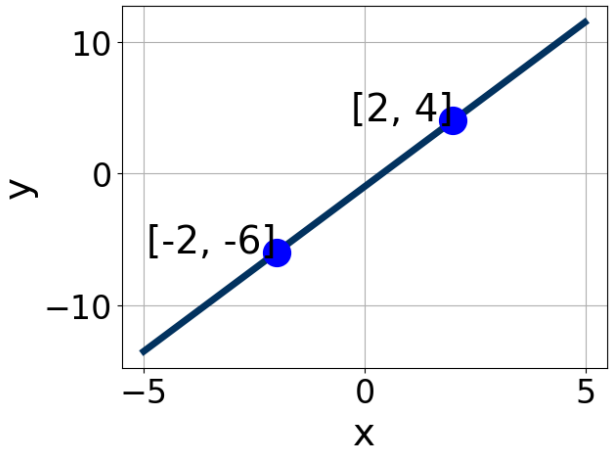
2. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [1, 10]$, $B \in [1.27, 2.23]$, and $C \in [-2.71, -1.47]$

B. $A \in [1, 10]$, $B \in [-2.99, -1.55]$, and $C \in [1.38, 2.2]$

C. $A \in [-4.5, -0.5]$, $B \in [-1.25, -0.06]$, and $C \in [0.82, 1.21]$

D. $A \in [-4.5, -0.5]$, $B \in [0.34, 1.84]$, and $C \in [-1.69, -0.67]$

E. $A \in [-5, -3]$, $B \in [1.27, 2.23]$, and $C \in [-2.71, -1.47]$

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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.

$$(-10, -8) \text{ and } (11, -2)$$

A. $m \in [0.24, 0.99]$ $b \in [-5.35, -5.1]$

B. $m \in [0.24, 0.99]$ $b \in [-13.11, -12.8]$

C. $m \in [-0.6, -0.22]$ $b \in [0.99, 1.38]$

D. $m \in [0.24, 0.99]$ $b \in [4.83, 5.41]$

E. $m \in [0.24, 0.99]$ $b \in [1.97, 2.57]$

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

$$-19(7x + 9) = -8(13x + 10)$$

A. $x \in [-2.06, 0.94]$

B. $x \in [5.66, 11.66]$

C. $x \in [-10.66, -5.66]$

D. $x \in [-3.14, -2.14]$

E. There are no real solutions.

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

$$-12(9x + 19) = -3(-11x - 15)$$

A. $x \in [-2.2, -1.91]$

B. $x \in [-2.77, -2.41]$

C. $x \in [-1.62, -1.12]$

D. $x \in [0.55, 2.03]$

E. There are no real solutions.

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

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

A. $x \in [-3.33, -2.39]$

B. $x \in [-4.62, -3.66]$

C. $x \in [-2.16, -0.87]$

D. $x \in [-1.16, 0.11]$

E. There are no real solutions.

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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 $7x - 8y = 12$ and passing through the point $(-2, 6)$.

A. $m \in [1.1, 1.8]$ $b \in [7.63, 7.77]$

B. $m \in [0.03, 1.09]$ $b \in [-7.83, -7.4]$

C. $m \in [-1.3, -0.76]$ $b \in [4.2, 4.36]$

D. $m \in [0.03, 1.09]$ $b \in [7.78, 8.1]$

E. $m \in [0.03, 1.09]$ $b \in [7.63, 7.77]$

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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.

Perpendicular to $8x - 5y = 5$ and passing through the point $(5, 3)$.

A. $m \in [0.48, 1.26]$ $b \in [-0.4, 1]$

B. $m \in [-1.55, -0.43]$ $b \in [-2.7, -0.9]$

C. $m \in [-1.55, -0.43]$ $b \in [-9.2, -5.8]$

D. $m \in [-3.08, -0.87]$ $b \in [4.7, 8.2]$

E. $m \in [-1.55, -0.43]$ $b \in [4.7, 8.2]$

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

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

A. $x \in [-24.5, -21.5]$

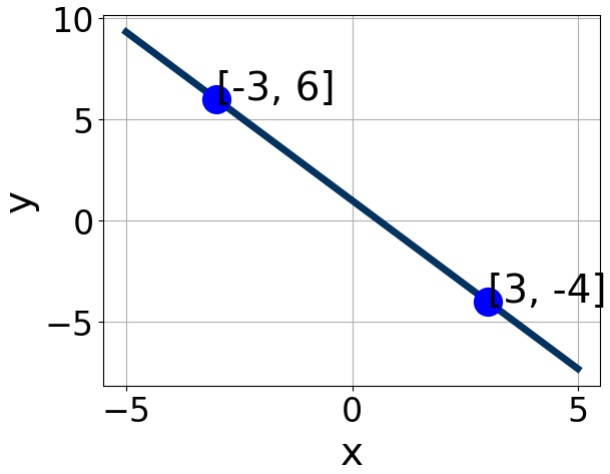
B. $x \in [-10.5, -6.5]$

C. $x \in [-14, -10]$

D. $x \in [-2.72, 2.28]$

E. There are no real solutions.

10. 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. $A \in [-6.1, -4.5]$, $B \in [-4.13, -2.59]$, and $C \in [-3.32, -2.14]$

B. $A \in [-2.4, 3.4]$, $B \in [-1.75, -0.21]$, and $C \in [-2.56, -0.54]$

C. $A \in [3.4, 7.3]$, $B \in [-4.13, -2.59]$, and $C \in [-3.32, -2.14]$

D. $A \in [-2.4, 3.4]$, $B \in [0.67, 1.02]$, and $C \in [-0.33, 1.41]$

E. $A \in [3.4, 7.3]$, $B \in [2.31, 3.82]$, and $C \in [1.33, 3.51]$