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.

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

A. $m \in [-0.14, 1.31]$ $b \in [0.34, 2.26]$

B. $m \in [-1.13, -0.17]$ $b \in [-13.05, -12.17]$

C. $m \in [-0.14, 1.31]$ $b \in [-2.43, -1.07]$

D. $m \in [-0.14, 1.31]$ $b \in [2.86, 3.56]$

E. $m \in [-0.14, 1.31]$ $b \in [-5.17, -4.93]$

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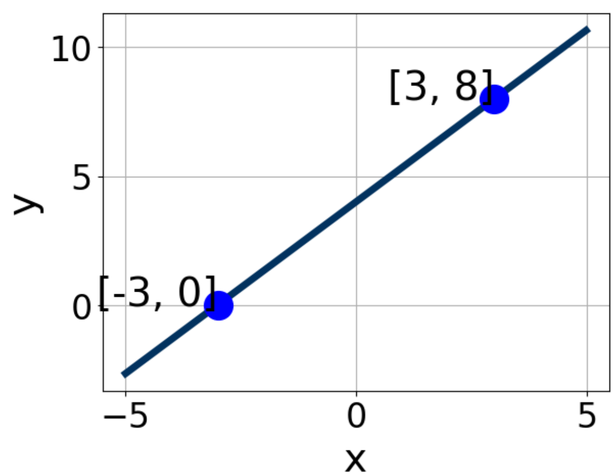
2. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-3.33, 1.67]$, $B \in [-1.66, -0.74]$, and $C \in [-7, -1]$

B. $A \in [2, 6]$, $B \in [1.52, 4.96]$, and $C \in [11, 14]$

C. $A \in [-4, -2]$, $B \in [1.52, 4.96]$, and $C \in [11, 14]$

D. $A \in [2, 6]$, $B \in [-4.58, -1.64]$, and $C \in [-15, -10]$

E. $A \in [-3.33, 1.67]$, $B \in [-0.08, 1.53]$, and $C \in [2, 9]$

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

$$-7(-2x-3) = -19(-11x+17)$$

A. $x \in [1.42, 1.74]$

B. $x \in [1.23, 1.49]$

C. $x \in [-1.72, -1.48]$

D. $x \in [1.67, 1.78]$

E. There are no real solutions.

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

$$-7(9x-14) = -19(2x-4)$$

A. $x \in [6.7, 8.3]$

B. $x \in [-7.9, -6.2]$

C. $x \in [-0.7, 1.4]$

D. $x \in [1.5, 2]$

E. There are no real solutions.

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5. 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 $3x + 4y = 6$ and passing through the point $(7, 2)$.

A. $m \in [-1.18, -0.1]$ $b \in [-5.6, -3.9]$

B. $m \in [-1.18, -0.1]$ $b \in [-9, -7.2]$

C. $m \in [0.38, 1.13]$ $b \in [-3.3, -0.4]$

D. $m \in [-1.82, -0.97]$ $b \in [5.2, 8.2]$

E. $m \in [-1.18, -0.1]$ $b \in [5.2, 8.2]$

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6. 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.

$$(2, 3) \text{ and } (-7, -4)$$

   A. $m \in [0.6, 2.4] \quad b \in [0.88, 1.18]$

   B. $m \in [0.6, 2.4] \quad b \in [-1.87, -1.28]$

   C. $m \in [0.6, 2.4] \quad b \in [2.89, 3.3]$

   D. $m \in [-2.6, -0.5] \quad b \in [-9.47, -9.35]$

   E. $m \in [0.6, 2.4] \quad b \in [1.32, 1.63]$

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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.

   Perpendicular to $5x + 6y = 15$ and passing through the point $(-2, -6)$.

   A. $m \in [0.86, 1.29] \quad b \in [3.31, 3.6]$

   B. $m \in [-1.6, -1.11] \quad b \in [-8.41, -8.28]$

   C. $m \in [0.86, 1.29] \quad b \in [-4.35, -3.66]$

   D. $m \in [0.86, 1.29] \quad b \in [-3.69, -3.22]$

   E. $m \in [0.67, 0.99] \quad b \in [-3.69, -3.22]$

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

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

   A. $x \in [4.2, 5.5]$

   B. $x \in [-1.3, 1.4]$

   C. $x \in [-1.8, -1.3]$

   D. $x \in [7.2, 9.1]$

   E. There are no real solutions.

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

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

A. $x \in [-3.8, -3.3]$

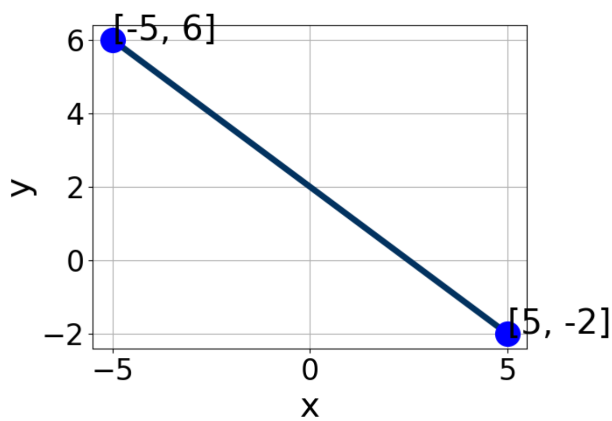
B. $x \in [-7.4, -5.9]$

C. $x \in [-11.3, -7.4]$

D. $x \in [-0.2, 0.8]$

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. $A \in [2, 7], \quad B \in [-7.8, -4.9], \text{ and } \quad C \in [-11, -4]$

B. $A \in [-1.2, 3.8], \quad B \in [-0.4, 2.9], \text{ and } \quad C \in [2, 8]$

C. $A \in [-1.2, 3.8], \quad B \in [-3.9, -0.4], \text{ and } \quad C \in [-2, -1]$

D. $A \in [2, 7], \quad B \in [3, 5.7], \text{ and } \quad C \in [7, 11]$

E. $A \in [-14, -2], \quad B \in [-7.8, -4.9], \text{ and } \quad C \in [-11, -4]$