1. 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 $9x - 5y = 14$ and passing through the point $(-2, -4)$.

   A. $m \in [1.4, 2.1]$ $b \in [-2.97, -1.69]$

   B. $m \in [-2.9, -0.8]$ $b \in [-8.65, -6.65]$

   C. $m \in [0.3, 1.1]$ $b \in [-0.69, 0.25]$

   D. $m \in [1.4, 2.1]$ $b \in [-0.69, 0.25]$

   E. $m \in [1.4, 2.1]$ $b \in [0.17, 1.08]$

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2. 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.

   $$(4, -10) \text{ and } (8, 5)$$

   A. $m \in [0.75, 7.75]$ $b \in [-5, 3]$

   B. $m \in [0.75, 7.75]$ $b \in [19, 31]$

   C. $m \in [-3.75, -2.75]$ $b \in [34, 36]$

   D. $m \in [0.75, 7.75]$ $b \in [-26, -21]$

   E. $m \in [0.75, 7.75]$ $b \in [-15, -13]$

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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.

   Parallel to $3x + 5y = 15$ and passing through the point $(10, 3)$.

   A. $m \in [-0.91, -0.12]$ $b \in [-8.7, -6.3]$

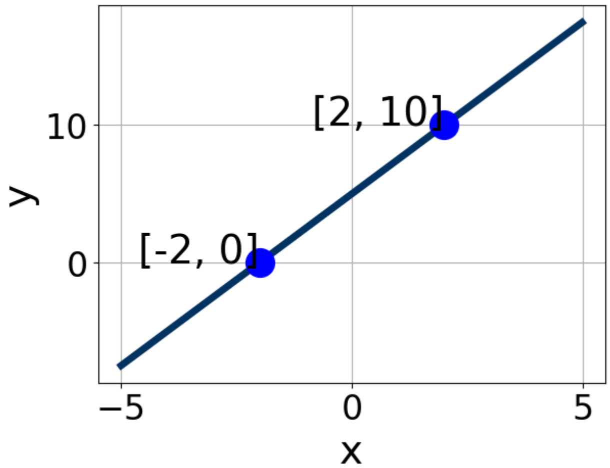
   B. $m \in [-0.91, -0.12]$ $b \in [-11.6, -8.1]$

   C. $m \in [-0.91, -0.12]$ $b \in [8.8, 9.2]$

   D. $m \in [-1.72, -0.61]$ $b \in [8.8, 9.2]$

   E. $m \in [0.26, 1.97]$ $b \in [-3.4, -2.1]$

4. 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. $A \in [-5.1, -4.2], \quad B \in [1.65, 2.49], \text{ and } \quad C \in [10, 12]$

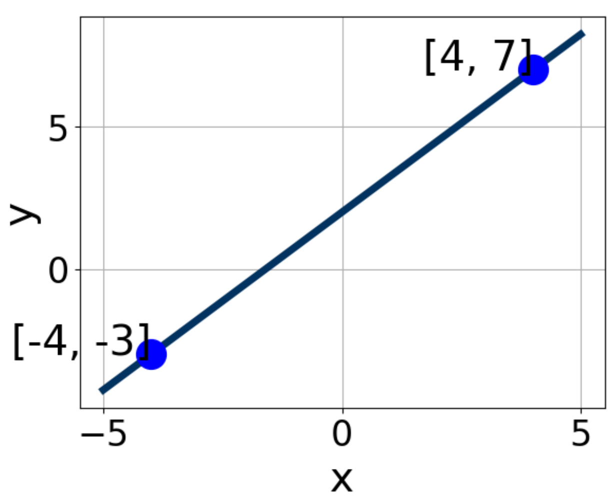
B. $A \in [3.9, 7.3], \quad B \in [1.65, 2.49], \text{ and } \quad C \in [10, 12]$

C. $A \in [-3.1, -0.2], \quad B \in [0.93, 1.23], \text{ and } \quad C \in [1, 6]$

D. $A \in [3.9, 7.3], \quad B \in [-2.14, -1.8], \text{ and } \quad C \in [-11, -6]$

E. $A \in [-3.1, -0.2], \quad B \in [-1.38, -0.9], \text{ and } \quad C \in [-8, -3]$

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. $A \in [-1.25, 0.75]$, $B \in [-3.9, -0.6]$, and $C \in [-3, 1]$

B. $A \in [-1.25, 0.75]$, $B \in [0, 3.3]$, and $C \in [1, 6]$

C. $A \in [3, 7]$, $B \in [-5.5, -3]$, and $C \in [-14, -7]$

D. $A \in [-13, -4]$, $B \in [1.5, 6.4]$, and $C \in [4, 13]$

E. $A \in [3, 7]$, $B \in [1.5, 6.4]$, and $C \in [4, 13]$

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

$$-8(18x - 11) = -2(-10x + 15)$$

A. $x \in [0.43, 0.57]$

B. $x \in [0.69, 0.81]$

C. $x \in [-0.44, -0.24]$

D. $x \in [0.33, 0.45]$

E. There are no real solutions.

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

$$\frac{5x-3}{8} - \frac{7x+9}{2} = \frac{-9x+8}{4}$$

A. $x \in [0.3, 1]$

B. $x \in [-11.4, -10]$

C. $x \in [-33.1, -30.2]$

D. $x \in [2.4, 4.3]$

E. There are no real solutions.

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

$$-12(19x + 17) = -16(-11x - 4)$$

A. $x \in [-0.76, -0.4]$

B. $x \in [-0.32, 0.56]$

C. $x \in [-2.89, -1.82]$

D. $x \in [-0.47, -0.29]$

E. There are no real solutions.

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

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

A. $x \in [-30, -26]$

B. $x \in [-2.4, 4.6]$

C. $x \in [108, 110]$

D. $x \in [29, 32]$

E. There are no real solutions.

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10. 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.

$$(-3, 4) \text{ and } (4, -8)$$

A. $m \in [-3, -0.6]$ $b \in [0.6, 4.3]$

B. $m \in [-3, -0.6]$ $b \in [-1.7, 1]$

C. $m \in [-3, -0.6]$ $b \in [-13.3, -9.7]$

D. $m \in [-3, -0.6]$ $b \in [6.2, 8.9]$

E. $m \in [0, 3.2]$ $b \in [-15.1, -14.8]$
