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 $8x - 9y = 8$ and passing through the point $(-5, 6)$.

   A. $m \in [-1.08, -0.8]$ $b \in [1.42, 1.58]$

   B. $m \in [0.47, 1.01]$ $b \in [10.21, 10.85]$

   C. $m \in [1.06, 1.31]$ $b \in [10.21, 10.85]$

   D. $m \in [0.47, 1.01]$ $b \in [-10.61, -9.48]$

   E. $m \in [0.47, 1.01]$ $b \in [10.55, 11.97]$

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.
   $$(-3, 7) \text{ and } (5, -2)$$

   A. $m \in [-3.12, 0.88]$ $b \in [-4.06, -2.99]$

   B. $m \in [-3.12, 0.88]$ $b \in [1.14, 4.53]$

   C. $m \in [-3.12, 0.88]$ $b \in [-7.14, -6.92]$

   D. $m \in [1.12, 10.12]$ $b \in [-8.17, -7.5]$

   E. $m \in [-3.12, 0.88]$ $b \in [8.1, 10.9]$

3. Solve the equation below. Then, choose the interval that contains the solution.
 $$-11(17x - 14) = -16(-10x + 18)$$

   A. $x \in [1.16, 1.96]$

   B. $x \in [-1.06, -0.24]$

   C. $x \in [0.31, 0.74]$

   D. $x \in [-5.79, -4.11]$

   E. There are no real solutions.

4. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{9x+8}{8} - \frac{-7x+4}{5} = \frac{8x-5}{3}$$

A. $x \in [61.53, 66.53]$

B. $x \in [22.47, 29.47]$

C. $x \in [-1.23, 2.77]$

D. $x \in [10.18, 15.18]$

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.
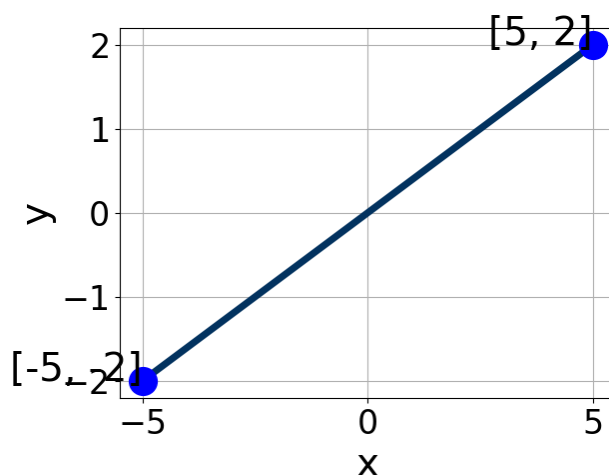
A. $A \in [-0.63, 0.45], \quad B \in [-2, 0],$ and $C \in [-1, 4]$

B. $A \in [-0.63, 0.45], \quad B \in [0, 3],$ and $C \in [-1, 4]$

C. $A \in [-2.04, -1.08], \quad B \in [5, 6],$ and $C \in [-1, 4]$

D. $A \in [1.94, 2.47], \quad B \in [5, 6],$ and $C \in [-1, 4]$

E. $A \in [1.94, 2.47], \quad B \in [-5, -2],$ and $C \in [-1, 4]$

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

$$\frac{-6x - 5}{8} - \frac{-7x - 9}{2} = \frac{7x - 3}{7}$$

  A. $x \in [0.4, 1]$

  B. $x \in [-4.6, -3.9]$

  C. $x \in [-3, -2.2]$

  D. $x \in [1.8, 4.8]$

  E. There are no real solutions.

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7. 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.

$$(8, 7) \text{ and } (6, 6)$$

  A. $m \in [0.36, 1.01]$ $b \in [-0.69, 0.38]$

  B. $m \in [-1.09, 0.46]$ $b \in [7.89, 10.51]$

  C. $m \in [0.36, 1.01]$ $b \in [-4.21, -2.47]$

  D. $m \in [0.36, 1.01]$ $b \in [-1.59, -0.63]$

  E. $m \in [0.36, 1.01]$ $b \in [2.51, 3.47]$

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

$$-19(14x - 12) = -5(15x - 3)$$

  A. $x \in [0.62, 0.72]$

  B. $x \in [1.11, 1.15]$

  C. $x \in [-1.31, -1.25]$

  D. $x \in [1.21, 1.32]$

  E. There are no real solutions.

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.
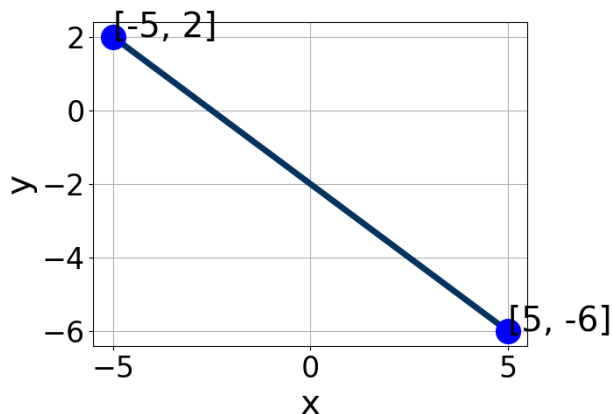
A. $A \in [2, 7],\quad B \in [-6.4, -4.6],\ $ and $\ C \in [10, 12]$

B. $A \in [0.5, 1.2],\quad B \in [-1.6, -0.1],\ $ and $\ C \in [1, 3]$

C. $A \in [2, 7],\quad B \in [4, 6.1],\ $ and $\ C \in [-15, -8]$

D. $A \in [-4.7, -1.9],\quad B \in [-6.4, -4.6],\ $ and $\ C \in [10, 12]$

E. $A \in [0.5, 1.2],\quad B \in [-0.1, 1.5],\ $ and $\ C \in [-4, 1]$

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.

Parallel to $9x - 7y = 14$ and passing through the point $(-10, 4)$.

A. $m \in [-1.73, -0.47]\ \ b \in [-11.86, -3.86]$

B. $m \in [0.82, 2.88]\ \ b \in [-16.86, -14.86]$

C. $m \in [-0.37, 1.14]\ \ b \in [14.86, 22.86]$

D. $m \in [0.82, 2.88]\ \ b \in [14, 15]$

E. $m \in [0.82, 2.88]\ \ b \in [14.86, 22.86]$