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 $3x - 4y = 14$ and passing through the point $(-10, 8)$.

   A. $m \in [-0.2, 0.95]$ $b \in [-21.5, -14.5]$

   B. $m \in [-0.2, 0.95]$ $b \in [18, 19]$

   C. $m \in [-0.2, 0.95]$ $b \in [15.5, 17.5]$

   D. $m \in [-1.15, -0.72]$ $b \in [-3.5, 2.5]$

   E. $m \in [0.89, 2.2]$ $b \in [15.5, 17.5]$

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

   A. $m \in [-0.16, 0.02]$ $b \in [6.7, 11.8]$

   B. $m \in [-0.16, 0.02]$ $b \in [-10.8, -7.2]$

   C. $m \in [-0.16, 0.02]$ $b \in [-4.7, 0.7]$

   D. $m \in [-0.16, 0.02]$ $b \in [-24.7, -19.3]$

   E. $m \in [-0.02, 0.33]$ $b \in [-15.4, -11.6]$

3. Solve the equation below. Then, choose the interval that contains the solution.
   $$-6(-4x - 5) = -7(-17x - 3)$$
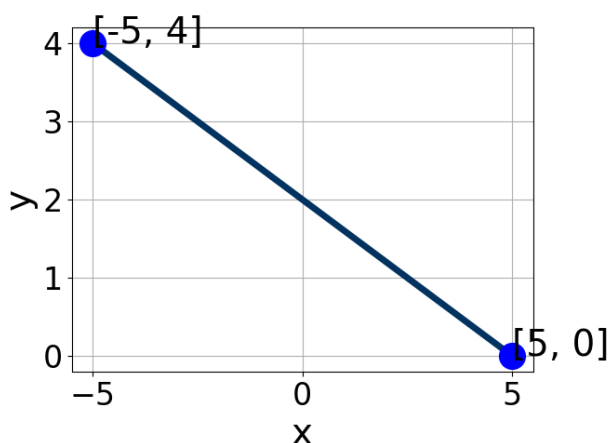
   A. $x \in [0.09, 0.34]$

   B. $x \in [0.29, 0.55]$

   C. $x \in [-0.42, -0.13]$

   D. $x \in [-0.6, -0.5]$

   E. There are no real solutions.

4. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{6x+5}{7} - \frac{9x+5}{6} = \frac{-4x+7}{3}$$

A. $x \in [1.9, 3.4]$

B. $x \in [3.5, 5]$

C. $x \in [0.1, 1.8]$

D. $x \in [9.1, 10.5]$

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. $A \in [1.6, 2.85], \quad B \in [-6.5, -4.6],$ and $\quad C \in [-10, -3]$

B. $A \in [-2.55, -0.55], \quad B \in [-6.5, -4.6],$ and $\quad C \in [-10, -3]$

C. $A \in [0.22, 1.05], \quad B \in [-0.6, 2.2],$ and $\quad C \in [1, 4]$

D. $A \in [0.22, 1.05], \quad B \in [-1.8, 0.6],$ and $\quad C \in [-3, 1]$

E. $A \in [1.6, 2.85], \quad B \in [4, 5.6],$ and $\quad C \in [9, 14]$

6. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{-8x+5}{7} - \frac{-6x-5}{2} = \frac{5x-7}{3}$$

   A. $x \in [-2.88, -0.88]$

   B. $x \in [-1.21, 4.79]$

   C. $x \in [-92.25, -86.25]$

   D. $x \in [-30.12, -28.12]$

   E. There are no real solutions.

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.
$$(3, -10) \text{ and } (11, -11)$$

   A. $m \in [-0.14, -0.04] \quad b \in [-13.98, -12.81]$

   B. $m \in [-0.14, -0.04] \quad b \in [-22.43, -21.83]$

   C. $m \in [-0.09, 0.13] \quad b \in [-12.54, -12.35]$

   D. $m \in [-0.14, -0.04] \quad b \in [9.02, 10]$

   E. $m \in [-0.14, -0.04] \quad b \in [-9.71, -9.03]$

8. Solve the equation below. Then, choose the interval that contains the solution.
$$-8(3x - 12) = -6(19x + 14)$$

   A. $x \in [0.13, 0.18]$

   B. $x \in [-2.02, -1.91]$

   C. $x \in [-0.18, -0.04]$

   D. $x \in [0.05, 0.09]$

   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.
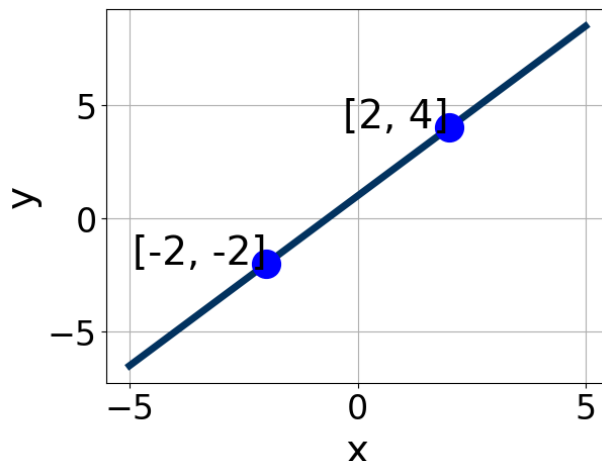
A. $A \in [0.4, 3.3], \quad B \in [-2.27, -1.7],$ and $\quad C \in [-2.2, -1.64]$

B. $A \in [0.4, 3.3], \quad B \in [1.93, 2.73],$ and $\quad C \in [1.73, 2.45]$

C. $A \in [-2.6, -0.2], \quad B \in [-1.73, -0.39],$ and $\quad C \in [-1.83, 0.55]$

D. $A \in [-2.6, -0.2], \quad B \in [0.74, 1.42],$ and $\quad C \in [0.89, 1.15]$

E. $A \in [-6.7, -1.7], \quad B \in [1.93, 2.73],$ and $\quad C \in [1.73, 2.45]$

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 $3x - 4y = 10$ and passing through the point $(3, 3)$.

A. $m \in [0.42, 0.77] \quad b \in [-1.24, -0.55]$

B. $m \in [0.42, 0.77] \quad b \in [-0.4, 0.25]$

C. $m \in [1.04, 1.59] \quad b \in [0.47, 2.22]$

D. $m \in [-1.63, -0.69] \quad b \in [4.45, 6.16]$

E. $m \in [0.42, 0.77] \quad b \in [0.47, 2.22]$