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

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

A.
$$x \in [-1.9, 0.2]$$

B.
$$x \in [-6.1, -5]$$

C.
$$x \in [-4.1, -2.5]$$

D.
$$x \in [-34.3, -32.9]$$

- E. There are no real solutions.
- 2. 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 4x + 7y = 12 and passing through the point (7, 4).

A.
$$m \in [0.93, 3.04]$$
 $b \in [-5, -2]$

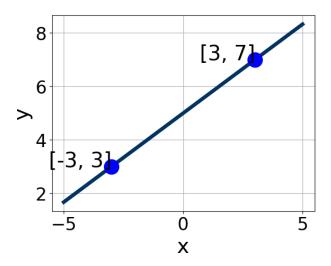
B.
$$m \in [-2.45, -1.54]$$
 $b \in [14, 19]$

C.
$$m \in [0.36, 1.17]$$
 $b \in [-10, -6]$

D.
$$m \in [0.93, 3.04]$$
 $b \in [3, 13]$

E.
$$m \in [0.93, 3.04]$$
 $b \in [-10, -6]$

3. 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. $A \in [-2.77, -1.81], B \in [1.3, 5.2], \text{ and } C \in [13, 19]$
- B. $A \in [-0.84, -0.07], B \in [-2.5, -0.9], \text{ and } C \in [-8, 1]$
- C. $A \in [1.78, 2.19], B \in [1.3, 5.2], \text{ and } C \in [13, 19]$
- D. $A \in [-0.84, -0.07], B \in [-0.6, 1.6], \text{ and } C \in [-3, 6]$
- E. $A \in [1.78, 2.19], B \in [-4.6, -2.4], \text{ and } C \in [-18, -12]$
- 4. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(8x - 5) = -9(13x - 6)$$

- A. $x \in [-1.49, -1.15]$
- B. $x \in [0.02, 0.27]$
- C. $x \in [0.62, 0.74]$
- D. $x \in [-0.46, 0.02]$
- E. There are no real solutions.
- 5. 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.

$$(-10,9)$$
 and $(-9,-5)$

A.
$$m \in [-18, -12]$$
 $b \in [-135, -129]$

B.
$$m \in [-18, -12]$$
 $b \in [11, 24]$

C.
$$m \in [-18, -12]$$
 $b \in [-1, 7]$

D.
$$m \in [-18, -12]$$
 $b \in [124, 136]$

E.
$$m \in [12, 16]$$
 $b \in [118, 122]$