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

$$-18(-7x+19) = -8(-10x-13)$$

- A. $x \in [-1.84, 2.16]$
- B. $x \in [7.7, 13.7]$
- C. $x \in [3.17, 6.17]$
- D. $x \in [-8.17, -1.17]$
- E. There are no real solutions.
- 2. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x+7}{3} - \frac{-5x+3}{7} = \frac{3x-6}{2}$$

- A. $x \in [-3, 0.1]$
- B. $x \in [-19.9, -17.2]$
- C. $x \in [-11, -9.4]$
- D. $x \in [-10.5, -8.7]$
- E. There are no real solutions.
- 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 5x + 4y = 3 and passing through the point (8,6).

- A. $m \in [-1.74, -0.87]$ $b \in [-16.1, -14.6]$
- B. $m \in [-1.74, -0.87]$ $b \in [13.5, 16.4]$
- C. $m \in [-1.02, -0.79]$ $b \in [13.5, 16.4]$
- D. $m \in [-1.74, -0.87]$ $b \in [-2.1, -1.7]$
- E. $m \in [0.81, 1.59]$ $b \in [-4.3, -2.9]$

4. 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.

$$(-11,6)$$
 and $(-7,3)$

A.
$$m \in [-3.8, -0.7]$$
 $b \in [-3.6, -2]$

B.
$$m \in [-3.8, -0.7]$$
 $b \in [0.1, 3.7]$

C.
$$m \in [-3.8, -0.7]$$
 $b \in [15.6, 17.9]$

D.
$$m \in [-3.8, -0.7]$$
 $b \in [8.4, 11.7]$

E.
$$m \in [0.1, 1.4]$$
 $b \in [7.9, 9.2]$

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.

$$(2,6)$$
 and $(10,2)$

A.
$$m \in [-1.43, 0.27]$$
 $b \in [2.61, 4.6]$

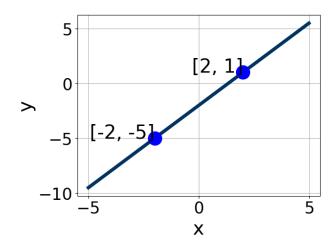
B.
$$m \in [-1.43, 0.27]$$
 $b \in [5.88, 8.39]$

C.
$$m \in [-1.43, 0.27]$$
 $b \in [-7.53, -6.79]$

D.
$$m \in [-1.43, 0.27]$$
 $b \in [-8.5, -7.99]$

E.
$$m \in [-0.34, 1.24]$$
 $b \in [-3.44, -2.64]$

6. 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.

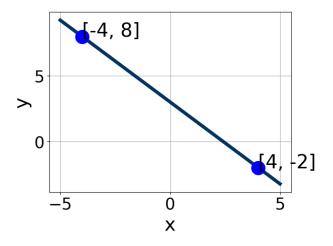


- A. $A \in [1.4, 4.7], B \in [-2.24, -1.31], \text{ and } C \in [2.8, 4.3]$
- B. $A \in [-2.5, 1.3], B \in [-1.97, -0.96], \text{ and } C \in [-0.7, 2.6]$
- C. $A \in [-2.5, 1.3], B \in [0.68, 1.32], \text{ and } C \in [-3.2, 0.1]$
- D. $A \in [1.4, 4.7], B \in [1.75, 2.41], \text{ and } C \in [-5, -3.6]$
- E. $A \in [-5.3, -2.8], B \in [1.75, 2.41], \text{ and } C \in [-5, -3.6]$
- 7. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A. $x \in [-8.55, -5.55]$
- B. $x \in [-6.18, -3.18]$
- C. $x \in [-42.18, -35.18]$
- D. $x \in [-2.52, 0.48]$
- E. There are no real solutions.
- 8. 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.

test



- A. $A \in [-4.75, 2.25], B \in [0.95, 1.15], \text{ and } C \in [3, 6]$
- B. $A \in [3, 8], B \in [3.92, 5.71], \text{ and } C \in [7, 18]$
- C. $A \in [-9, -4], B \in [-4.73, -3.12], \text{ and } C \in [-15, -6]$
- D. $A \in [3, 8], B \in [-4.73, -3.12], \text{ and } C \in [-15, -6]$
- E. $A \in [-4.75, 2.25], B \in [-1.46, -0.73], \text{ and } C \in [-6, 0]$
- 9. 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 9x - 8y = 8 and passing through the point (9,8).

A.
$$m \in [-0.89, -0.73]$$
 $b \in [12.5, 16.5]$

B.
$$m \in [-0.89, -0.73]$$
 $b \in [-16.5, -14.2]$

C.
$$m \in [-1.33, -1.12]$$
 $b \in [12.5, 16.5]$

D.
$$m \in [0.82, 1.01]$$
 $b \in [-0.3, 0.1]$

E.
$$m \in [-0.89, -0.73]$$
 $b \in [-1.3, -0.5]$

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

$$-19(-3x+16) = -8(-9x+17)$$

A.
$$x \in [-12.2, -8.2]$$

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- B. $x \in [-30.33, -28.33]$
- C. $x \in [1.41, 4.41]$
- D. $x \in [27.33, 32.33]$
- E. There are no real solutions.

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