

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

$$-17(8x + 19) = -3(7x + 4)$$

- A. $x \in [-2.94, -2.77]$
 - B. $x \in [-2.43, -1.77]$
 - C. $x \in [-2.82, -2.7]$
 - D. $x \in [2.65, 3.32]$
 - E. There are no real solutions.
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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 .

$$(-11, 8) \text{ and } (-3, -10)$$

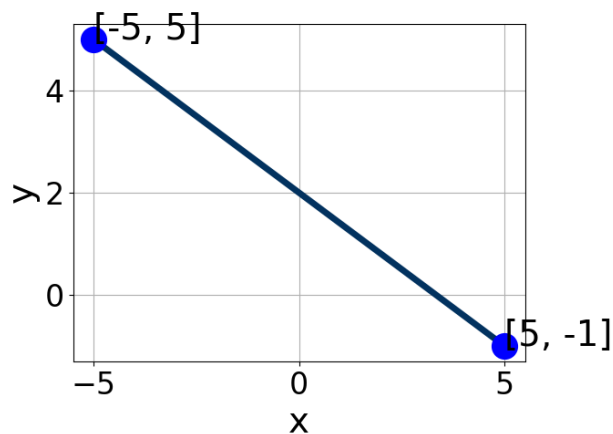
- A. $m \in [-3.25, -1.25]$ $b \in [-8, -5]$
 - B. $m \in [-3.25, -1.25]$ $b \in [19, 22]$
 - C. $m \in [-3.25, -1.25]$ $b \in [10.75, 17.75]$
 - D. $m \in [-3.25, -1.25]$ $b \in [-19.75, -10.75]$
 - E. $m \in [2.25, 3.25]$ $b \in [-5.25, -0.25]$
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3. 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 $4x - 9y = 4$ and passing through the point $(4, -9)$.

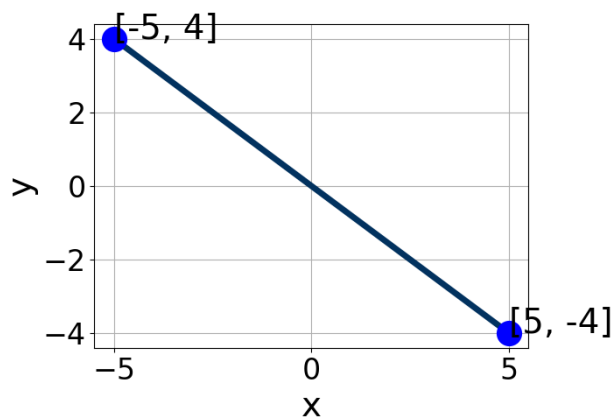
- A. $m \in [1.68, 3.26]$ $b \in [-11.78, -8.78]$
- B. $m \in [-0.34, 1.17]$ $b \in [8.78, 15.78]$
- C. $m \in [-1.16, 0.19]$ $b \in [-8.22, -6.22]$
- D. $m \in [-0.34, 1.17]$ $b \in [-14, -11]$
- E. $m \in [-0.34, 1.17]$ $b \in [-11.78, -8.78]$

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. $A \in [-5.6, -1.2]$, $B \in [-5.77, -4.68]$, and $C \in [-10, -3]$
 B. $A \in [2.7, 6.5]$, $B \in [4.47, 5.8]$, and $C \in [7, 13]$
 C. $A \in [-0.6, 1.2]$, $B \in [0.82, 2.26]$, and $C \in [0, 6]$
 D. $A \in [2.7, 6.5]$, $B \in [-5.77, -4.68]$, and $C \in [-10, -3]$
 E. $A \in [-0.6, 1.2]$, $B \in [-1.91, 0.15]$, and $C \in [-9, 1]$

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. $A \in [1, 7]$, $B \in [4, 5.99]$, and $C \in [-2, 3]$

- B. $A \in [-2.2, 2.8]$, $B \in [0.71, 2.09]$, and $C \in [-2, 3]$
- C. $A \in [1, 7]$, $B \in [-5.96, -3.24]$, and $C \in [-2, 3]$
- D. $A \in [-2.2, 2.8]$, $B \in [-1.33, 0.02]$, and $C \in [-2, 3]$
- E. $A \in [-7, -2]$, $B \in [-5.96, -3.24]$, and $C \in [-2, 3]$

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

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

- A. $x \in [-1.2, 0.5]$
- B. $x \in [-132.4, -131.5]$
- C. $x \in [-27.3, -25.7]$
- D. $x \in [-0.7, 0.9]$
- E. There are no real solutions.

7. 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 $8x + 3y = 3$ and passing through the point $(-2, -7)$.

- A. $m \in [-3.1, -1.5]$ $b \in [12.33, 14.33]$
- B. $m \in [-3.1, -1.5]$ $b \in [-14.33, -9.33]$
- C. $m \in [0.5, 5]$ $b \in [-1.67, 0.33]$
- D. $m \in [-3.1, -1.5]$ $b \in [-9, -4]$
- E. $m \in [-1.1, 0.5]$ $b \in [-14.33, -9.33]$

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

$$-9(-16x + 7) = -12(-6x - 10)$$

- A. $x \in [0.72, 0.89]$

- B. $x \in [-0.88, -0.68]$
- C. $x \in [-0.7, -0.25]$
- D. $x \in [2.29, 3.12]$
- E. There are no real solutions.

9. 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 .

$(8, 6)$ and $(6, 5)$

- A. $m \in [-0.49, 1.04]$ $b \in [-2.5, -1.4]$
- B. $m \in [-0.49, 1.04]$ $b \in [-2.5, -1.4]$
- C. $m \in [-0.49, 1.04]$ $b \in [1, 4.5]$
- D. $m \in [-0.49, 1.04]$ $b \in [-1.6, -0.3]$
- E. $m \in [-1.51, -0.45]$ $b \in [6.5, 8.8]$

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

$$\frac{-5x - 8}{6} - \frac{-4x - 4}{3} = \frac{3x + 7}{2}$$

- A. $x \in [-4.5, -2.5]$
- B. $x \in [-9.17, -4.17]$
- C. $x \in [-1.88, 1.12]$
- D. $x \in [-14, -8]$
- E. There are no real solutions.