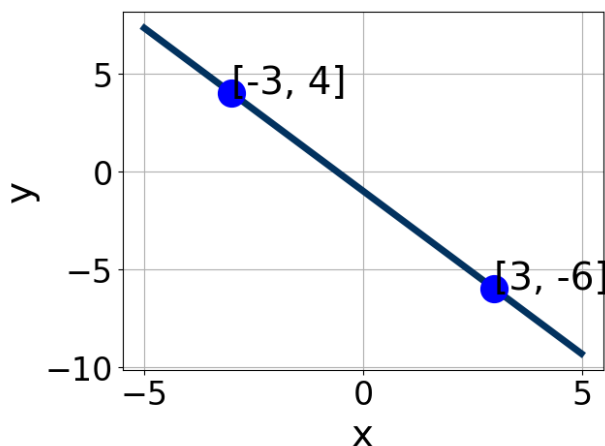


1. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A. $x \in [-1.7, -0.6]$
- B. $x \in [1.5, 2.4]$
- C. $x \in [10.9, 12.8]$
- D. $x \in [0.2, 0.8]$
- E. There are no real solutions.

-
2. 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. $A \in [0, 2.2]$, $B \in [0.94, 2.57]$, and $C \in [-1.2, -0.8]$
- B. $A \in [2.5, 5.2]$, $B \in [-3.82, -2.9]$, and $C \in [2.3, 5]$
- C. $A \in [2.5, 5.2]$, $B \in [2.07, 3.41]$, and $C \in [-6.6, -2]$
- D. $A \in [-6.9, -2.9]$, $B \in [-3.82, -2.9]$, and $C \in [2.3, 5]$
- E. $A \in [0, 2.2]$, $B \in [-1.51, -0.08]$, and $C \in [-0.8, 1.3]$

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

$$-6(-16x - 9) = -4(10x - 11)$$

- A. $x \in [-1.9, -1.1]$
 - B. $x \in [0.6, 1.5]$
 - C. $x \in [-0.3, 0.2]$
 - D. $x \in [-1.7, -0.3]$
 - E. There are no real solutions.
-

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 .

$(-10, 2)$ and $(6, -9)$

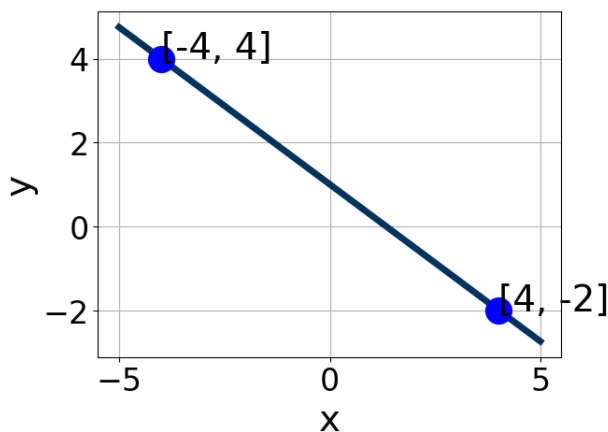
- A. $m \in [-1.44, 0.13]$ $b \in [-16.3, -13.7]$
 - B. $m \in [-1.44, 0.13]$ $b \in [9.9, 15.6]$
 - C. $m \in [-1.44, 0.13]$ $b \in [-6.9, -3]$
 - D. $m \in [-0.56, 1.01]$ $b \in [-14.5, -10.5]$
 - E. $m \in [-1.44, 0.13]$ $b \in [1.6, 7]$
-

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 .

$(-4, 6)$ and $(-2, 3)$

- A. $m \in [-0.5, 2.6]$ $b \in [5.85, 7.27]$
 - B. $m \in [-4.1, 0.5]$ $b \in [-1.47, 0.3]$
 - C. $m \in [-4.1, 0.5]$ $b \in [4.78, 5.84]$
 - D. $m \in [-4.1, 0.5]$ $b \in [-1.47, 0.3]$
 - E. $m \in [-4.1, 0.5]$ $b \in [9.92, 11.12]$
-

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. $A \in [1.6, 5.3]$, $B \in [-5.22, -3.84]$, and $C \in [-5.79, -3.85]$
 B. $A \in [-1, 2.2]$, $B \in [-3.39, 0.19]$, and $C \in [-1.89, -0.73]$
 C. $A \in [1.6, 5.3]$, $B \in [2.54, 4.5]$, and $C \in [3.4, 4.08]$
 D. $A \in [-3.5, -2.7]$, $B \in [-5.22, -3.84]$, and $C \in [-5.79, -3.85]$
 E. $A \in [-1, 2.2]$, $B \in [0.29, 1.96]$, and $C \in [0.72, 1.37]$

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

$$-16(-10x - 4) = -13(-17x - 6)$$

- A. $x \in [2.03, 2.39]$
 B. $x \in [-2.91, -1.84]$
 C. $x \in [-0.96, -0.37]$
 D. $x \in [-0.28, 0.4]$
 E. There are no real solutions.

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

- A. $m \in [-3.33, -1.33]$ $b \in [1, 7]$

- B. $m \in [-0.43, 1.57]$ $b \in [-5, 1]$
 - C. $m \in [-3.33, -1.33]$ $b \in [-5, 1]$
 - D. $m \in [2.33, 7.33]$ $b \in [6, 11]$
 - E. $m \in [-3.33, -1.33]$ $b \in [1, 7]$
-

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

$$\frac{-4x + 6}{3} - \frac{-7x - 9}{2} = \frac{-4x + 5}{7}$$

- A. $x \in [1, 2]$
 - B. $x \in [-4.5, -2.8]$
 - C. $x \in [-1.9, -0.8]$
 - D. $x \in [-2.6, -1.8]$
 - E. There are no real solutions.
-

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 $3x - 5y = 7$ and passing through the point $(6, 5)$.

- A. $m \in [-1.42, -0.58]$ $b \in [8.53, 9.81]$
 - B. $m \in [0.54, 0.75]$ $b \in [1.16, 2.09]$
 - C. $m \in [0.54, 0.75]$ $b \in [-1.14, -0.76]$
 - D. $m \in [0.54, 0.75]$ $b \in [-1.67, -1.11]$
 - E. $m \in [1.08, 2.03]$ $b \in [1.16, 2.09]$
-