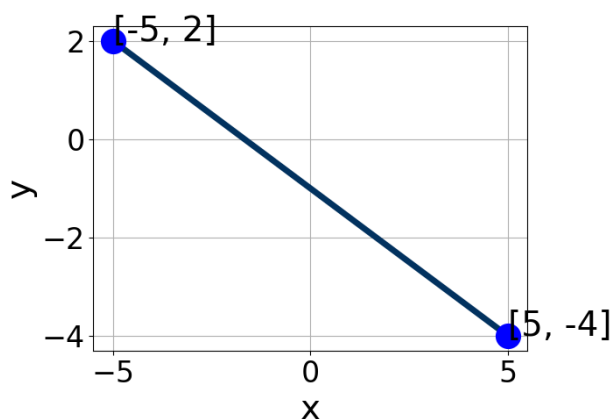


1. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b .

$$(9, -9) \text{ and } (10, 3)$$

- A. $m \in [11, 16]$ $b \in [-11, -6]$
B. $m \in [11, 16]$ $b \in [-124, -114]$
C. $m \in [-13, -10]$ $b \in [119, 127]$
D. $m \in [11, 16]$ $b \in [-19, -15]$
E. $m \in [11, 16]$ $b \in [115, 119]$
-

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. $A \in [1.6, 5.1]$, $B \in [4, 7.7]$, and $C \in [-5.2, -2.8]$
B. $A \in [1.6, 5.1]$, $B \in [-6.5, -3.6]$, and $C \in [4.7, 5.2]$
C. $A \in [-0.8, 1.3]$, $B \in [-0.1, 1.2]$, and $C \in [-2.1, 0.7]$
D. $A \in [-6.7, -1.3]$, $B \in [-6.5, -3.6]$, and $C \in [4.7, 5.2]$
E. $A \in [-0.8, 1.3]$, $B \in [-1.1, 0.2]$, and $C \in [-0.2, 1.9]$
-

3. 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 .

$$(-8, 11) \text{ and } (-4, 5)$$

- A. $m \in [-3.5, 0.5]$ $b \in [8.4, 9.2]$
 - B. $m \in [-3.5, 0.5]$ $b \in [-0.2, 2.3]$
 - C. $m \in [-3.5, 0.5]$ $b \in [16, 19.8]$
 - D. $m \in [-3.5, 0.5]$ $b \in [-1.1, 0.2]$
 - E. $m \in [1.5, 6.5]$ $b \in [9.9, 12.4]$
-

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

$$-9(-17x - 19) = -15(-8x - 5)$$

- A. $x \in [-1.9, 1.1]$
 - B. $x \in [-10.45, -6.45]$
 - C. $x \in [7.45, 8.45]$
 - D. $x \in [-4.91, -0.91]$
 - E. There are no real solutions.
-

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

$$-3(13x - 4) = -5(19x + 15)$$

- A. $x \in [-1.19, -0.83]$
 - B. $x \in [-0.58, -0.22]$
 - C. $x \in [-1.79, -1.37]$
 - D. $x \in [0.89, 1.13]$
 - E. There are no real solutions.
-

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

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

- A. $x \in [-0.5, 1.7]$
 - B. $x \in [-2.7, -0.6]$
 - C. $x \in [-3.5, -2.1]$
 - D. $x \in [-9.6, -5.5]$
 - 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 .

Perpendicular to $9x + 5y = 8$ and passing through the point $(6, -9)$.

- A. $m \in [0.05, 1]$ $b \in [-15.8, -14]$
 - B. $m \in [1.42, 2.17]$ $b \in [-13.8, -9.4]$
 - C. $m \in [0.05, 1]$ $b \in [-13.8, -9.4]$
 - D. $m \in [0.05, 1]$ $b \in [12, 13.1]$
 - E. $m \in [-1.63, 0.2]$ $b \in [-8.6, -4.1]$
-

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 $8x - 5y = 9$ and passing through the point $(8, 6)$.

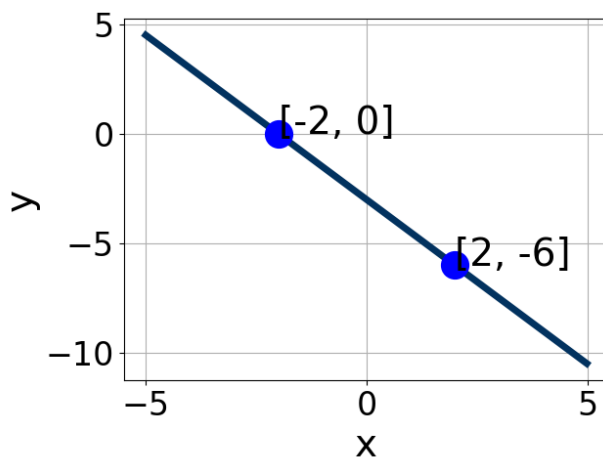
- A. $m \in [1.23, 2.72]$ $b \in [5.8, 9.8]$
- B. $m \in [1.23, 2.72]$ $b \in [-9.8, -5.8]$
- C. $m \in [0.08, 0.75]$ $b \in [-9.8, -5.8]$
- D. $m \in [-1.95, -0.76]$ $b \in [16.8, 21.8]$
- E. $m \in [1.23, 2.72]$ $b \in [-3, 3]$

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

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

- A. $x \in [-4.09, -2.67]$
- B. $x \in [-1.22, -0.29]$
- C. $x \in [-17.54, -16.44]$
- D. $x \in [-1.83, -1.14]$
- E. There are no real solutions.

10. 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. $A \in [2.84, 4.19]$, $B \in [1.27, 2.29]$, and $C \in [-6.5, -4.8]$
- B. $A \in [1.08, 2.37]$, $B \in [0.59, 1.23]$, and $C \in [-3.1, -2.6]$
- C. $A \in [-3.32, -2.01]$, $B \in [-2.44, -1.82]$, and $C \in [5.9, 7.3]$
- D. $A \in [2.84, 4.19]$, $B \in [-2.44, -1.82]$, and $C \in [5.9, 7.3]$
- E. $A \in [1.08, 2.37]$, $B \in [-1.32, -0.95]$, and $C \in [1.1, 3.2]$