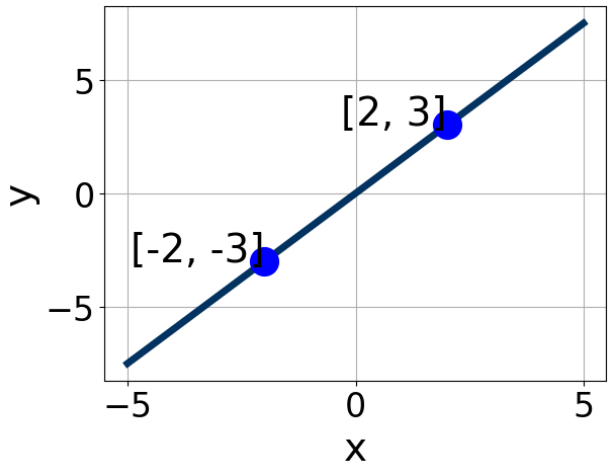
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.6, 4.9]$, $B \in [1.76, 2.67]$, and $C \in [-3, 4]$

B. $A \in [-4.9, -1.8]$, $B \in [1.76, 2.67]$, and $C \in [-3, 4]$

C. $A \in [0.6, 4.9]$, $B \in [-2.59, -1.75]$, and $C \in [-3, 4]$

D. $A \in [-2.9, 0.5]$, $B \in [-0.39, 1.35]$, and $C \in [-3, 4]$

E. $A \in [-2.9, 0.5]$, $B \in [-1.73, -0.72]$, and $C \in [-3, 4]$

---

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 $6x + 7y = 7$ and passing through the point $(-5, -9)$.

A. $m \in [1.1, 1.9]$ $b \in [-4.49, -3.25]$

B. $m \in [1.1, 1.9]$ $b \in [2.38, 3.72]$

C. $m \in [-1, 1.1]$ $b \in [-3.51, -2.36]$

D. $m \in [1.1, 1.9]$ $b \in [-3.51, -2.36]$

E. $m \in [-1.9, -1]$ $b \in [-14.96, -14.51]$

---

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

$$-3(5x - 7) = -2(-11x - 19)$$

A. $x \in [-2.59, -0.59]$

B. $x \in [-0.41, 2.59]$

C. $x \in [-8.43, -6.43]$

D. $x \in [-1.46, 1.54]$

E. There are no real solutions.

---

4. 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 $8x - 7y = 15$ and passing through the point $(-4, -8)$.

A. $m \in [1.01, 1.46]$ $b \in [-3.58, -3.34]$

B. $m \in [1.01, 1.46]$ $b \in [2.98, 3.57]$

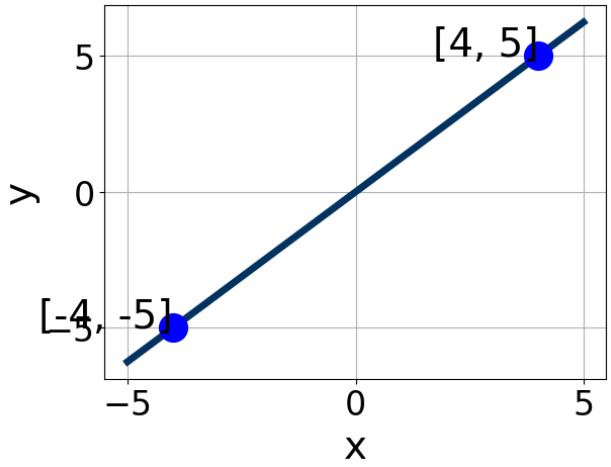
C. $m \in [-1.19, -1.09]$ $b \in [-12.74, -12.01]$

D. $m \in [1.01, 1.46]$ $b \in [-4.69, -3.53]$

E. $m \in [0.77, 0.99]$ $b \in [-3.58, -3.34]$

---

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. $A \in [3, 8]$, $B \in [-6, -3.9]$, and $C \in [-3, 6]$

B. $A \in [-8, -3]$, $B \in [3.2, 6.6]$, and $C \in [-3, 6]$

C. $A \in [-2.25, 0.75]$, $B \in [-2.8, -0.5]$, and $C \in [-3, 6]$

D. $A \in [3, 8]$, $B \in [3.2, 6.6]$, and $C \in [-3, 6]$

E. $A \in [-2.25, 0.75]$, $B \in [0.4, 3.3]$, and $C \in [-3, 6]$

---

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

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

A. $x \in [-5.1, -3.3]$

B. $x \in [-11.3, -9.6]$

C. $x \in [-3.2, -1.2]$

D. $x \in [-1.3, 0.2]$

E. There are no real solutions.

---

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

$$-11(-10x - 9) = -18(-14x - 7)$$

A. $x \in [-1.05, -0.31]$

B. $x \in [-0.28, 0.45]$

C. $x \in [0.76, 2.33]$

D. $x \in [-2.51, -1.31]$

E. There are no real solutions.

---

8. 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.

$$(-11, 9) \text{ and } (-9, -4)$$

A. $m \in [-12.5, -3.5]$ $b \in [3, 6]$

B. $m \in [-12.5, -3.5]$ $b \in [59.5, 68.5]$

C. $m \in [-12.5, -3.5]$ $b \in [-63.5, -59.5]$

D. $m \in [2.5, 12.5]$ $b \in [51.5, 60.5]$

E. $m \in [-12.5, -3.5]$ $b \in [20, 29]$

---

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

$$\frac{5x + 5}{8} - \frac{9x - 7}{6} = \frac{-3x - 3}{7}$$

A. $x \in [3.97, 7.97]$

B. $x \in [32.6, 36.6]$

C. $x \in [1.22, 3.22]$

D. $x \in [-2.25, 1.75]$

E. There are no real solutions.

---

10. 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.

$$(10, 9) \text{ and } (6, -2)$$

A. $m \in [-1.25, 3.75]$ $b \in [-12, -2]$

B. $m \in [-1.25, 3.75]$ $b \in [17.5, 20.5]$

C. $m \in [-6.75, -1.75]$ $b \in [10.5, 16.5]$

D. $m \in [-1.25, 3.75]$ $b \in [-3, 5]$

E. $m \in [-1.25, 3.75]$ $b \in [-19.5, -14.5]$
