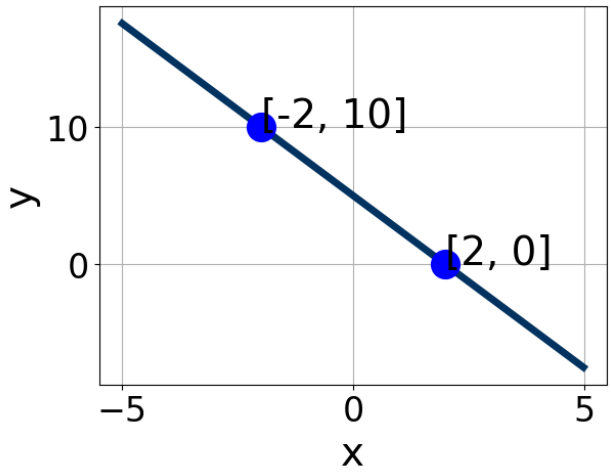
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [5, 6]$, $B \in [-2.93, -1.4]$, and $C \in [-17, -8]$

B. $A \in [-6, -1]$, $B \in [-2.93, -1.4]$, and $C \in [-17, -8]$

C. $A \in [5, 6]$, $B \in [1.71, 2.33]$, and $C \in [10, 14]$

D. $A \in [-1.5, 3.5]$, $B \in [0.77, 1.64]$, and $C \in [2, 6]$

E. $A \in [-1.5, 3.5]$, $B \in [-1.8, -0.31]$, and $C \in [-8, -2]$

2.

---

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.

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

A. $m \in [-1.27, -1.11]$ $b \in [17, 18.1]$

B. $m \in [-1.06, -0.59]$ $b \in [-19.3, -17.3]$

C. $m \in [-1.27, -1.11]$ $b \in [-0.7, 2.6]$

D. $m \in [-1.27, -1.11]$ $b \in [-19.3, -17.3]$

E. $m \in [0.97, 1.63]$ $b \in [2.1, 3.7]$

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.

$$(-11, -4) \text{ and } (5, 3)$$

A. $m \in [-0.09, 0.96]$ $b \in [-2.94, -1.61]$

B. $m \in [-0.09, 0.96]$ $b \in [-1.26, -0.33]$

C. $m \in [-0.09, 0.96]$ $b \in [6.06, 7.56]$

D. $m \in [-0.09, 0.96]$ $b \in [0.39, 1.44]$

E. $m \in [-1.75, -0.21]$ $b \in [3.58, 6.79]$

5.

---

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

$$-3(-18x + 2) = -13(-14x - 16)$$

A. $x \in [1.47, 1.64]$

B. $x \in [1.3, 1.46]$

C. $x \in [-0.99, -0.61]$

D. $x \in [0.69, 1.06]$

E. There are no real solutions.

---

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

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

A. $x \in [17.64, 22.64]$

B. $x \in [4.82, 9.82]$

C. $x \in [-0.73, 1.27]$

D. $x \in [1.08, 4.08]$

E. There are no real solutions.
