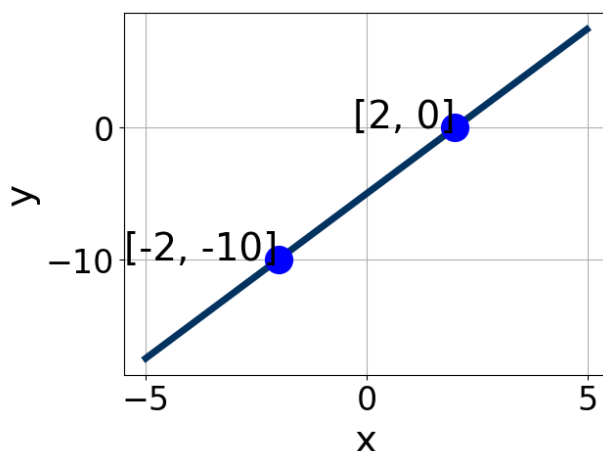
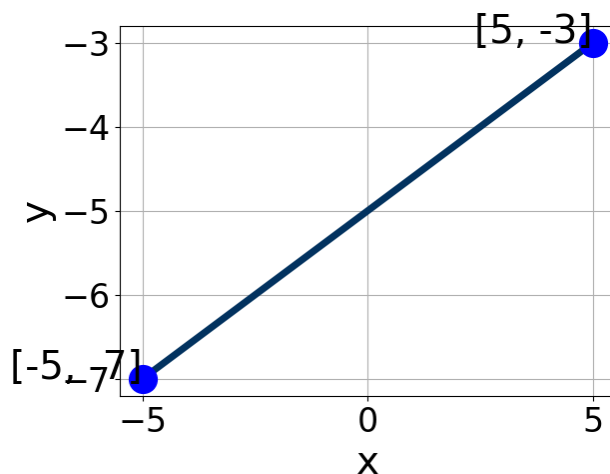


1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [1.9, 9.1]$, $B \in [-2.93, -1.9]$, and $C \in [9.5, 11.3]$
 B. $A \in [-4.5, -1.5]$, $B \in [0.93, 1.87]$, and $C \in [-6.3, -3.6]$
 C. $A \in [-5.6, -3.6]$, $B \in [1.99, 2.33]$, and $C \in [-12.1, -9.9]$
 D. $A \in [-4.5, -1.5]$, $B \in [-1.01, -0.52]$, and $C \in [3.8, 5.3]$
 E. $A \in [1.9, 9.1]$, $B \in [1.99, 2.33]$, and $C \in [-12.1, -9.9]$

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. $A \in [1.82, 4.08]$, $B \in [1.6, 5.7]$, and $C \in [-33, -23]$

- B. $A \in [-1.02, 0.23]$, $B \in [0.6, 1.7]$, and $C \in [-5, -1]$
C. $A \in [-3.33, -1.68]$, $B \in [1.6, 5.7]$, and $C \in [-33, -23]$
D. $A \in [-1.02, 0.23]$, $B \in [-2, 0.1]$, and $C \in [-1, 6]$
E. $A \in [1.82, 4.08]$, $B \in [-5.1, -3.2]$, and $C \in [23, 30]$
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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 .

Perpendicular to $5x + 6y = 15$ and passing through the point $(6, 8)$.

- A. $m \in [0.31, 1.12]$ $b \in [0.4, 1.6]$
B. $m \in [1.13, 2.89]$ $b \in [-1.2, 0.6]$
C. $m \in [-1.53, -0.91]$ $b \in [12.4, 15.9]$
D. $m \in [1.13, 2.89]$ $b \in [1.6, 4.4]$
E. $m \in [1.13, 2.89]$ $b \in [0.4, 1.6]$
-

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 .

$(-10, -8)$ and $(-7, 7)$

- A. $m \in [5, 6]$ $b \in [13, 19]$
B. $m \in [5, 6]$ $b \in [41, 45]$
C. $m \in [-7, -2]$ $b \in [-35, -26]$
D. $m \in [5, 6]$ $b \in [-46, -39]$
E. $m \in [5, 6]$ $b \in [1, 8]$
-

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

$$-19(2x - 9) = -7(-15x + 16)$$

- A. $x \in [-0.64, 0.02]$
 - B. $x \in [0.2, 0.62]$
 - C. $x \in [-0.96, -0.79]$
 - D. $x \in [1.54, 2.19]$
 - E. There are no real solutions.
-

6. 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 $5x + 4y = 14$ and passing through the point $(5, -10)$.

- A. $m \in [-0.86, -0.35]$ $b \in [-7.11, -4.81]$
 - B. $m \in [0.91, 1.81]$ $b \in [-14.05, -13.3]$
 - C. $m \in [0.41, 1.11]$ $b \in [-14.05, -13.3]$
 - D. $m \in [0.41, 1.11]$ $b \in [13.34, 14.87]$
 - E. $m \in [0.41, 1.11]$ $b \in [-15.08, -14.34]$
-

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

$$-14(13x + 12) = -3(15x + 2)$$

- A. $x \in [-1.27, -1.05]$
 - B. $x \in [-0.86, -0.75]$
 - C. $x \in [1.26, 1.29]$
 - D. $x \in [-1.3, -1.22]$
 - E. There are no real solutions.
-

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

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

- A. $x \in [-5.88, -0.88]$
 - B. $x \in [-1.16, 0.84]$
 - C. $x \in [0.38, 5.38]$
 - D. $x \in [-37, -31]$
 - E. There are no real solutions.
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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 .

$$(-4, -8) \text{ and } (5, -10)$$

- A. $m \in [-0.35, -0.06]$ $b \in [-4.5, -1.3]$
 - B. $m \in [-0.14, 0.49]$ $b \in [-12.8, -9.9]$
 - C. $m \in [-0.35, -0.06]$ $b \in [-10.9, -8.8]$
 - D. $m \in [-0.35, -0.06]$ $b \in [-18.1, -14.9]$
 - E. $m \in [-0.35, -0.06]$ $b \in [7.5, 10.5]$
-

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

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

- A. $x \in [-8.83, -4.83]$
 - B. $x \in [-21.5, -17.5]$
 - C. $x \in [-1.28, 0.72]$
 - D. $x \in [9.33, 11.33]$
 - E. There are no real solutions.
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