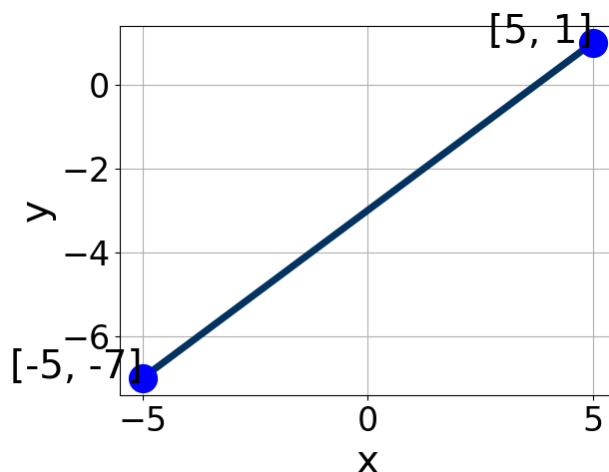


1. Solve the linear equation below. Then, choose the interval that contains the solution.

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

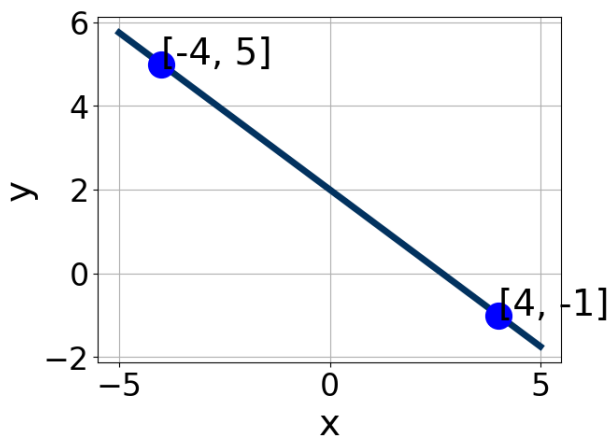
- A. $x \in [-2.29, 1.71]$
- B. $x \in [1.78, 6.78]$
- C. $x \in [39, 42]$
- D. $x \in [13.89, 16.89]$
- E. There are no real solutions.

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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. $A \in [3.21, 5.04]$, $B \in [-5.2, -4.6]$, and $C \in [14, 22]$
- B. $A \in [3.21, 5.04]$, $B \in [4.1, 5.1]$, and $C \in [-17, -10]$
- C. $A \in [-1.23, -0.29]$, $B \in [0.9, 2.1]$, and $C \in [-4, 1]$
- D. $A \in [-4.1, -3.44]$, $B \in [4.1, 5.1]$, and $C \in [-17, -10]$
- E. $A \in [-1.23, -0.29]$, $B \in [-2.7, 0.2]$, and $C \in [-1, 4]$

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3. 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. $A \in [-5, -0.7]$, $B \in [-4.2, -3.2]$, and $C \in [-8.2, -5.9]$
 B. $A \in [2.6, 3.5]$, $B \in [-4.2, -3.2]$, and $C \in [-8.2, -5.9]$
 C. $A \in [-2.4, 2.1]$, $B \in [0.76, 3.5]$, and $C \in [0.2, 2.1]$
 D. $A \in [-2.4, 2.1]$, $B \in [-1.18, -0.31]$, and $C \in [-3.8, -0.2]$
 E. $A \in [2.6, 3.5]$, $B \in [3.15, 4.91]$, and $C \in [7.5, 8.9]$

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

$$-5(-4x - 2) = -11(-12x + 14)$$

- A. $x \in [1.21, 1.3]$
 B. $x \in [-1.4, -1.25]$
 C. $x \in [0.93, 1.04]$
 D. $x \in [1.46, 1.55]$
 E. There are no real solutions.

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 .

$$(-11, 4) \text{ and } (2, -3)$$

- A. $m \in [-2, 0.5]$ $b \in [1.42, 2.11]$

- B. $m \in [-2, 0.5]$ $b \in [14.36, 15.3]$
 - C. $m \in [-2, 0.5]$ $b \in [-2.67, -1.25]$
 - D. $m \in [0.4, 2.6]$ $b \in [-4.08, -3.84]$
 - E. $m \in [-2, 0.5]$ $b \in [-5.41, -4.34]$
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6. Solve the equation below. Then, choose the interval that contains the solution.

$$-14(17x - 18) = -16(9x + 19)$$

- A. $x \in [-0.3, -0.07]$
 - B. $x \in [5.62, 6.41]$
 - C. $x \in [-1.17, -0.47]$
 - D. $x \in [0.42, 0.98]$
 - E. There are no real solutions.
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7. 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 .

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

- A. $m \in [-0.24, 0.03]$ $b \in [-2.5, 2.3]$
 - B. $m \in [-0.24, 0.03]$ $b \in [-9.3, -7.4]$
 - C. $m \in [0.04, 0.4]$ $b \in [-7.4, -7]$
 - D. $m \in [-0.24, 0.03]$ $b \in [6.1, 9.6]$
 - E. $m \in [-0.24, 0.03]$ $b \in [-20.2, -19.7]$
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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 $3x - 8y = 5$ and passing through the point $(5, 6)$.

- A. $m \in [-0.05, 0.52]$ $b \in [4.12, 5.12]$
 - B. $m \in [-0.4, 0.35]$ $b \in [5.88, 10.88]$
 - C. $m \in [-0.05, 0.52]$ $b \in [-5.12, -3.12]$
 - D. $m \in [1.94, 2.71]$ $b \in [4.12, 5.12]$
 - E. $m \in [-0.05, 0.52]$ $b \in [-2, 3]$
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9. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A. $x \in [-9.1, -7.6]$
 - B. $x \in [-2.6, 1.1]$
 - C. $x \in [-5.7, -3]$
 - D. $x \in [-20.6, -17.8]$
 - E. There are no real solutions.
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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 $4x - 7y = 12$ and passing through the point $(-10, 5)$.

- A. $m \in [-1.01, -0.46]$ $b \in [-2.71, 1.29]$
 - B. $m \in [0.5, 1.21]$ $b \in [14, 17]$
 - C. $m \in [0.5, 1.21]$ $b \in [-11.71, -9.71]$
 - D. $m \in [0.5, 1.21]$ $b \in [10.71, 13.71]$
 - E. $m \in [1.58, 2.47]$ $b \in [10.71, 13.71]$
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