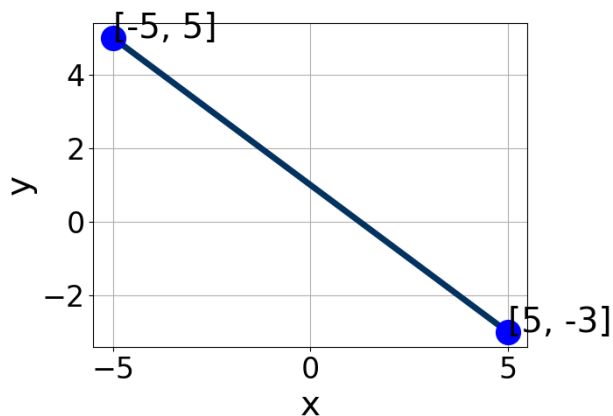


1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-0.4, 1.6]$, $B \in [-3.2, 0.5]$, and $C \in [-2.9, 0.2]$
B. $A \in [2.1, 6.3]$, $B \in [-6, -4]$, and $C \in [-6.5, -3.9]$
C. $A \in [-4.8, -3.1]$, $B \in [-6, -4]$, and $C \in [-6.5, -3.9]$
D. $A \in [-0.4, 1.6]$, $B \in [0.9, 3]$, and $C \in [-0.9, 1.5]$
E. $A \in [2.1, 6.3]$, $B \in [3.9, 5.9]$, and $C \in [3.3, 7.8]$
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2. Solve the equation below. Then, choose the interval that contains the solution.

$$-5(6x - 12) = -10(2x + 13)$$

- A. $x \in [-3.4, 0.6]$
B. $x \in [4, 9]$
C. $x \in [-7, -4]$
D. $x \in [19, 21]$
E. There are no real solutions.
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3. Solve the equation below. Then, choose the interval that contains the solution.

$$-2(3x + 14) = -19(-9x - 6)$$

- A. $x \in [-0.82, -0.73]$
 - B. $x \in [-0.65, -0.49]$
 - C. $x \in [0.43, 0.52]$
 - D. $x \in [-0.5, -0.42]$
 - E. There are no real solutions.
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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 .

Perpendicular to $5x + 8y = 3$ and passing through the point $(9, 3)$.

- A. $m \in [1.3, 3.1]$ $b \in [-15.4, -7.4]$
 - B. $m \in [-0.8, 1.2]$ $b \in [-15.4, -7.4]$
 - C. $m \in [-3, 0.1]$ $b \in [17.4, 20.4]$
 - D. $m \in [1.3, 3.1]$ $b \in [10.4, 14.4]$
 - E. $m \in [1.3, 3.1]$ $b \in [-6, -5]$
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5. 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 $9x + 4y = 12$ and passing through the point $(4, -2)$.

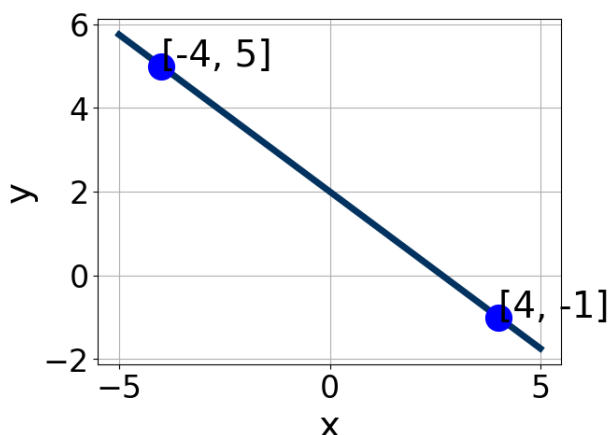
- A. $m \in [-0.32, 0.68]$ $b \in [3.1, 6.5]$
 - B. $m \in [1.58, 2.49]$ $b \in [-4.6, -0.6]$
 - C. $m \in [-0.32, 0.68]$ $b \in [-7.2, -4.5]$
 - D. $m \in [-0.32, 0.68]$ $b \in [-4.6, -0.6]$
 - E. $m \in [-0.71, -0.02]$ $b \in [-1.1, -0.1]$
-

6. 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 .

$$(7, -5) \text{ and } (-9, 9)$$

- A. $m \in [-0.7, 3]$ $b \in [16.57, 17.98]$
B. $m \in [-2.1, 0.8]$ $b \in [0.88, 1.19]$
C. $m \in [-2.1, 0.8]$ $b \in [-12.48, -10.75]$
D. $m \in [-2.1, 0.8]$ $b \in [-1.96, 0.76]$
E. $m \in [-2.1, 0.8]$ $b \in [17.02, 18.34]$
-

7. 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. $A \in [2.24, 3.02]$, $B \in [-4.2, -3.44]$, and $C \in [-12, -7]$
B. $A \in [-0.48, 0.84]$, $B \in [-1.95, 0.23]$, and $C \in [-2, 1]$
C. $A \in [-4.64, -2.13]$, $B \in [-4.2, -3.44]$, and $C \in [-12, -7]$
D. $A \in [-0.48, 0.84]$, $B \in [0.13, 1.5]$, and $C \in [2, 4]$
E. $A \in [2.24, 3.02]$, $B \in [3.72, 4.68]$, and $C \in [7, 14]$
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8. Solve the linear equation below. Then, choose the interval that contains

the solution.

$$\frac{-9x + 9}{8} - \frac{-5x - 8}{6} = \frac{-3x - 4}{2}$$

- A. $x \in [-17.38, -15.38]$
- B. $x \in [3.46, 9.46]$
- C. $x \in [-4.69, -1.69]$
- D. $x \in [-3.48, 1.52]$
- E. There are no real solutions.

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

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

- A. $x \in [4, 7.3]$
- B. $x \in [1.9, 2.6]$
- C. $x \in [0.3, 0.7]$
- D. $x \in [21.3, 24.9]$
- 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 .

$(6, -7)$ and $(3, -4)$

- A. $m \in [-0.4, 3.8]$ $b \in [-8.2, -6.35]$
- B. $m \in [-2.8, 0.1]$ $b \in [-1.34, -0.58]$
- C. $m \in [-2.8, 0.1]$ $b \in [-13.05, -12.42]$
- D. $m \in [-2.8, 0.1]$ $b \in [-8.2, -6.35]$
- E. $m \in [-2.8, 0.1]$ $b \in [0.89, 1.93]$