

1. 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 .

$$(8, -11) \text{ and } (-2, 9)$$

- A. $m \in [-4, -1]$ $b \in [-5.46, -4.84]$
 - B. $m \in [2, 5]$ $b \in [11.32, 13.22]$
 - C. $m \in [-4, -1]$ $b \in [-19.03, -18.73]$
 - D. $m \in [-4, -1]$ $b \in [3.74, 6.39]$
 - E. $m \in [-4, -1]$ $b \in [10.86, 12.91]$
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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 .

Parallel to $8x - 9y = 7$ and passing through the point $(-8, -7)$.

- A. $m \in [0.7, 0.94]$ $b \in [-0.03, 0.36]$
 - B. $m \in [1.1, 2]$ $b \in [-0.03, 0.36]$
 - C. $m \in [-0.91, -0.61]$ $b \in [-14.12, -14.03]$
 - D. $m \in [0.7, 0.94]$ $b \in [-0.26, 0.01]$
 - E. $m \in [0.7, 0.94]$ $b \in [0.55, 1.14]$
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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 .

Parallel to $8x + 7y = 3$ and passing through the point $(-8, -9)$.

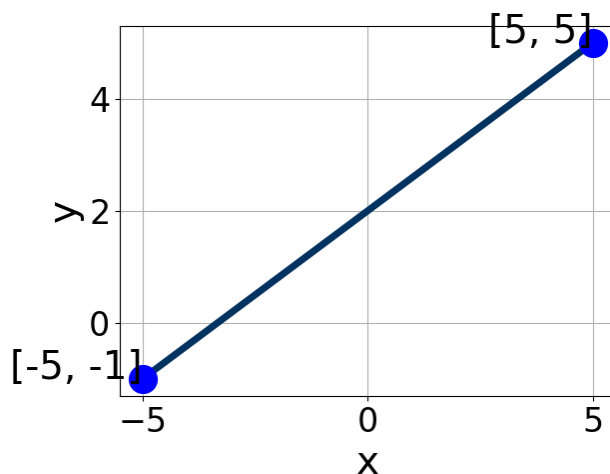
- A. $m \in [-1.31, -1.04]$ $b \in [15.14, 23.14]$
- B. $m \in [-1.31, -1.04]$ $b \in [-20.14, -13.14]$
- C. $m \in [1, 1.15]$ $b \in [-0.86, 2.14]$
- D. $m \in [-1.31, -1.04]$ $b \in [-3, 0]$
- E. $m \in [-0.94, -0.58]$ $b \in [-20.14, -13.14]$

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 .

$(2, -5)$ and $(7, 10)$

- A. $m \in [1, 7]$ $b \in [-16, -9]$
B. $m \in [1, 7]$ $b \in [8, 15]$
C. $m \in [-11, 1]$ $b \in [25, 38]$
D. $m \in [1, 7]$ $b \in [-9, 0]$
E. $m \in [1, 7]$ $b \in [-3, 4]$

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. $A \in [2.3, 3.6]$, $B \in [4.54, 6.34]$, and $C \in [8.6, 10.8]$
B. $A \in [2.3, 3.6]$, $B \in [-6.2, -4.41]$, and $C \in [-12.2, -9.5]$
C. $A \in [-1.8, 0.1]$, $B \in [-0.26, 1.69]$, and $C \in [1.6, 3.9]$
D. $A \in [-1.8, 0.1]$, $B \in [-2.41, 0.59]$, and $C \in [-3.7, -1.9]$
E. $A \in [-5.5, -0.8]$, $B \in [4.54, 6.34]$, and $C \in [8.6, 10.8]$

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

$$-14(-18x - 17) = -8(6x + 2)$$

- A. $x \in [-1.16, -0.98]$
 - B. $x \in [0.71, 0.82]$
 - C. $x \in [-0.95, -0.78]$
 - D. $x \in [-0.84, -0.69]$
 - E. There are no real solutions.
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7. Solve the linear equation below. Then, choose the interval that contains the solution.

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

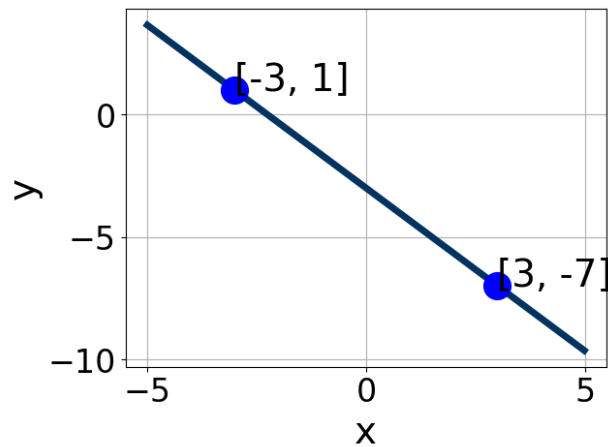
- A. $x \in [-10.5, -8.5]$
 - B. $x \in [-2.17, 1.83]$
 - C. $x \in [-6.38, -4.38]$
 - D. $x \in [-30.88, -26.88]$
 - E. There are no real solutions.
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8. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A. $x \in [-1.5, 0.3]$
 - B. $x \in [-4.1, -2.3]$
 - C. $x \in [6.5, 8.7]$
 - D. $x \in [0.5, 2]$
 - E. There are no real solutions.
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9. 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. $A \in [3.7, 4.7]$, $B \in [-4.92, -2.14]$, and $C \in [9, 11]$
B. $A \in [0.5, 3.7]$, $B \in [0.7, 2.07]$, and $C \in [-3, 0]$
C. $A \in [3.7, 4.7]$, $B \in [2.89, 4.99]$, and $C \in [-11, -6]$
D. $A \in [-4.4, -2.6]$, $B \in [-4.92, -2.14]$, and $C \in [9, 11]$
E. $A \in [0.5, 3.7]$, $B \in [-1.5, 0.65]$, and $C \in [2, 5]$

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

$$-19(-10x + 6) = -8(13x - 2)$$

- A. $x \in [0.18, 0.41]$
B. $x \in [0.34, 0.83]$
C. $x \in [1.11, 1.55]$
D. $x \in [-0.82, 0.17]$
E. There are no real solutions.
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