

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 .

$$(4, 10) \text{ and } (-4, -6)$$

- A. $m \in [1, 4]$ $b \in [-3, -1]$
B. $m \in [-5, 1]$ $b \in [-18, -11]$
C. $m \in [1, 4]$ $b \in [3, 10]$
D. $m \in [1, 4]$ $b \in [-3, -1]$
E. $m \in [1, 4]$ $b \in [0, 3]$
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2. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x + 8}{2} - \frac{6x - 9}{7} = \frac{7x + 8}{6}$$

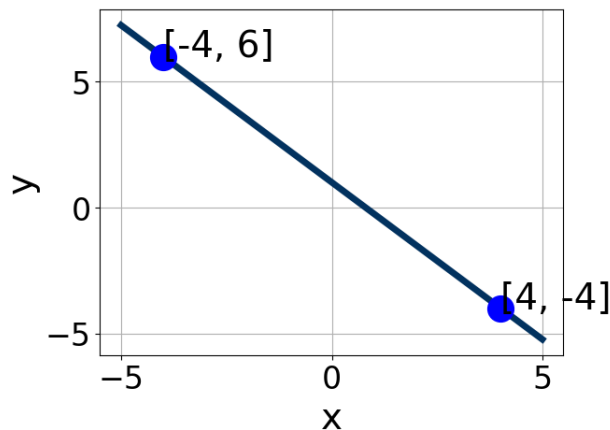
- A. $x \in [-6.8, -5.1]$
B. $x \in [-3.4, -2]$
C. $x \in [-1, -0.7]$
D. $x \in [0.6, 2.1]$
E. There are no real solutions.
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3. First, find the equation of the line containing the two points below. Then, write the equation as $y = mx + b$ and choose the intervals that contain m and b .

$$(-10, 10) \text{ and } (-3, -8)$$

- A. $m \in [-4.57, -1.57]$ $b \in [-22.71, -10.71]$
B. $m \in [-4.57, -1.57]$ $b \in [17, 24]$
C. $m \in [-4.57, -1.57]$ $b \in [-6, -1]$
D. $m \in [-4.57, -1.57]$ $b \in [13.71, 17.71]$
E. $m \in [1.57, 4.57]$ $b \in [-1.29, 1.71]$

4. 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. $A \in [-0.1, 2.2]$, $B \in [-0.31, 1.03]$, and $C \in [0.72, 1.47]$
B. $A \in [4.4, 8.4]$, $B \in [3.89, 4.28]$, and $C \in [3.8, 5.66]$
C. $A \in [-0.1, 2.2]$, $B \in [-1.84, -0.09]$, and $C \in [-2.35, -0.65]$
D. $A \in [4.4, 8.4]$, $B \in [-5.04, -3.95]$, and $C \in [-4.46, -3.92]$
E. $A \in [-6.1, -4.8]$, $B \in [-5.04, -3.95]$, and $C \in [-4.46, -3.92]$

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

$$-11(4x + 3) = -16(-5x + 7)$$

- A. $x \in [0.45, 0.73]$
B. $x \in [-1.65, -0.85]$
C. $x \in [0.9, 1.17]$
D. $x \in [3.58, 4.2]$
E. There are no real solutions.

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

the solution.

$$\frac{3x + 5}{7} - \frac{4x - 5}{4} = \frac{-3x + 7}{8}$$

- A. $x \in [13.27, 18.27]$
 - B. $x \in [-10.18, -6.18]$
 - C. $x \in [-3.54, 0.46]$
 - D. $x \in [3.55, 8.55]$
 - E. There are no real solutions.
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7. Solve the equation below. Then, choose the interval that contains the solution.

$$-8(-7x - 17) = -3(4x - 6)$$

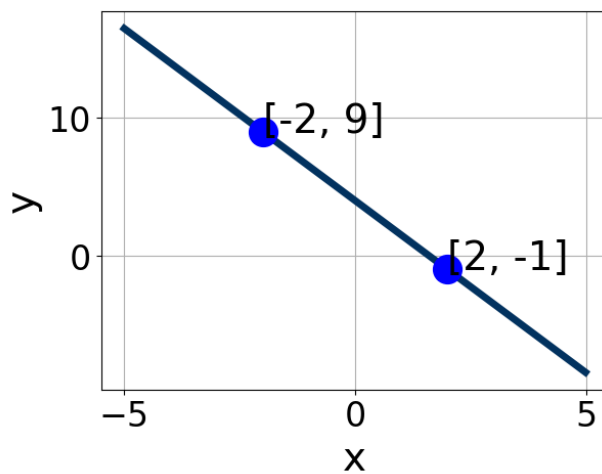
- A. $x \in [-4.6, -2.7]$
 - B. $x \in [1.9, 2.5]$
 - C. $x \in [-3.2, -2.1]$
 - D. $x \in [-2.1, -0.8]$
 - E. There are no real solutions.
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8. Find the equation of the line described below. Write the linear equation as $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $3x + 8y = 3$ and passing through the point $(10, -3)$.

- A. $m \in [0.3, 1.6]$ $b \in [-10.2, -5.8]$
 - B. $m \in [-5.1, -2.1]$ $b \in [0.2, 1.2]$
 - C. $m \in [-1.7, -0.2]$ $b \in [0.2, 1.2]$
 - D. $m \in [-1.7, -0.2]$ $b \in [-1.4, 0.6]$
 - E. $m \in [-1.7, -0.2]$ $b \in [-14, -11.7]$
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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. $A \in [0.5, 3.5]$, $B \in [-0.4, 1.7]$, and $C \in [3.3, 6.7]$
B. $A \in [0.5, 3.5]$, $B \in [-1.59, -0.03]$, and $C \in [-5.7, -2.7]$
C. $A \in [4, 10]$, $B \in [1.92, 2.42]$, and $C \in [5.7, 8.1]$
D. $A \in [4, 10]$, $B \in [-2.26, -1.25]$, and $C \in [-10.8, -7.8]$
E. $A \in [-11, -2]$, $B \in [-2.26, -1.25]$, and $C \in [-10.8, -7.8]$
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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 $8x - 7y = 6$ and passing through the point $(-8, 4)$.

- A. $m \in [1.13, 1.43]$ $b \in [-14.14, -8.14]$
B. $m \in [1.13, 1.43]$ $b \in [13.14, 17.14]$
C. $m \in [1.13, 1.43]$ $b \in [8, 13]$
D. $m \in [-1.28, -0.88]$ $b \in [-7.14, -3.14]$
E. $m \in [0.67, 1.1]$ $b \in [13.14, 17.14]$
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