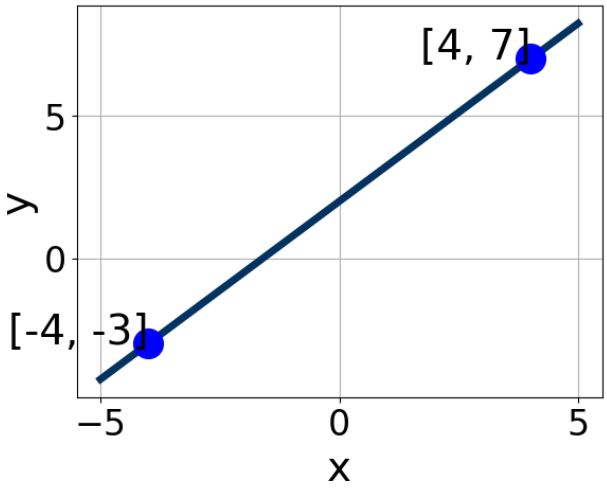
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3, 11]$, $B \in [-4.9, -2.83]$, and $C \in [-12, -3]$

B. $A \in [-3.25, 3.75]$, $B \in [-2.37, -0.05]$, and $C \in [-2, 1]$

C. $A \in [-3.25, 3.75]$, $B \in [0.66, 1.09]$, and $C \in [1, 5]$

D. $A \in [-8, -4]$, $B \in [3.45, 4.54]$, and $C \in [3, 12]$

E. $A \in [3, 11]$, $B \in [3.45, 4.54]$, and $C \in [3, 12]$

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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 $6x + 5y = 8$ and passing through the point $(-2, 4)$.

A. $m \in [-2.17, -1.14]$ $b \in [1.07, 2.48]$

B. $m \in [0.37, 1.88]$ $b \in [6.29, 6.78]$

C. $m \in [-2.17, -1.14]$ $b \in [5.73, 6.3]$

D. $m \in [-2.17, -1.14]$ $b \in [-1.78, -1.14]$

E. $m \in [-0.97, -0.67]$ $b \in [1.07, 2.48]$

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

$$-18(15x + 16) = -6(-10x - 9)$$

A. $x \in [-0.77, -0.68]$

B. $x \in [-1.13, -1.11]$

C. $x \in [0.66, 0.74]$

D. $x \in [-1.04, -1]$

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 $3x - 8y = 6$ and passing through the point $(-10, 8)$.

A. $m \in [-2.38, 2.62]$ $b \in [-19.57, -18.5]$

B. $m \in [-2.67, -0.67]$ $b \in [-19.57, -18.5]$

C. $m \in [1.67, 5.67]$ $b \in [33.55, 34.88]$

D. $m \in [-2.67, -0.67]$ $b \in [16.67, 18.61]$

E. $m \in [-2.67, -0.67]$ $b \in [18.32, 18.75]$

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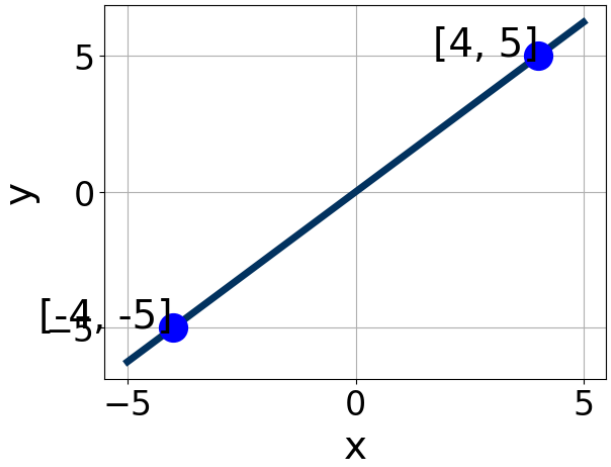
5. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-3.25, 0.75]$, $B \in [-1.6, -0.4]$, and $C \in [-3, 4]$

B. $A \in [1, 10]$, $B \in [-7.5, -3.1]$, and $C \in [-3, 4]$

C. $A \in [-3.25, 0.75]$, $B \in [0.6, 2.4]$, and $C \in [-3, 4]$

D. $A \in [-11, -3]$, $B \in [3.3, 4.1]$, and $C \in [-3, 4]$

E. $A \in [1, 10]$, $B \in [3.3, 4.1]$, and $C \in [-3, 4]$

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

$$\frac{3x-6}{5} - \frac{-8x-7}{3} = \frac{6x-7}{4}$$

A. $x \in [-3.1, -0.6]$

B. $x \in [-0.3, 1.6]$

C. $x \in [-6.1, -3.5]$

D. $x \in [-1.3, -0.2]$

E. There are no real solutions.

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

$$-8(-5x-17) = -2(15x+6)$$

A. $x \in [-12.68, -12.18]$

B. $x \in [1.43, 2.25]$

C. $x \in [-2.87, -1.96]$

D. $x \in [-2.03, -1.43]$

E. There are no real solutions.

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8. 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.

$$(-10, -2) \text{ and } (-2, -3)$$

A. $m \in [0, 0.33]$ $b \in [-3.21, -2]$

B. $m \in [-0.2, -0]$ $b \in [-3.94, -2.88]$

C. $m \in [-0.2, -0]$ $b \in [-1.21, -0.95]$

D. $m \in [-0.2, -0]$ $b \in [3.1, 3.26]$

E. $m \in [-0.2, -0]$ $b \in [7.72, 8.16]$

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

$$\frac{6x + 3}{8} - \frac{-4x + 7}{4} = \frac{4x + 4}{3}$$

A. $x \in [18.4, 19.8]$

B. $x \in [-2.6, -1.7]$

C. $x \in [6.3, 7.8]$

D. $x \in [0.1, 1.1]$

E. There are no real solutions.

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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.

$$(2, 9) \text{ and } (4, 8)$$

A. $m \in [-1.67, 0.11]$ $b \in [6.93, 7.51]$

B. $m \in [-1.67, 0.11]$ $b \in [3.45, 4.1]$

C. $m \in [-1.67, 0.11]$ $b \in [-10.32, -9.12]$

D. $m \in [-1.67, 0.11]$ $b \in [7.88, 12.14]$

E. $m \in [-0.12, 2.04]$ $b \in [5.92, 6.58]$