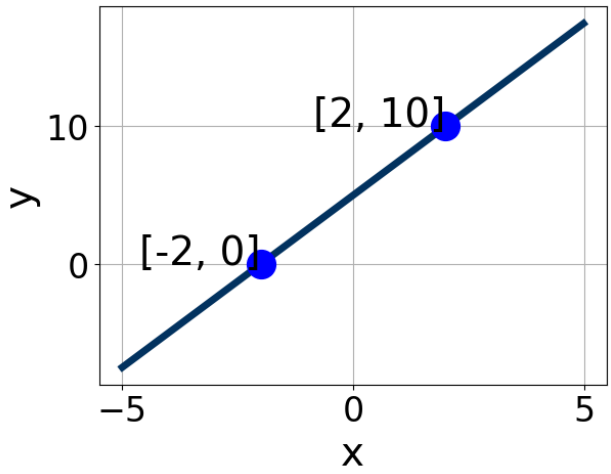
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3.1, 5.2]$, $B \in [-2.31, -1.18]$, and $C \in [-10, -7]$

B. $A \in [-3.7, -2.4]$, $B \in [-1.2, -0.85]$, and $C \in [-6, -2]$

C. $A \in [3.1, 5.2]$, $B \in [1.6, 2.12]$, and $C \in [6, 11]$

D. $A \in [-6.7, -3.4]$, $B \in [1.6, 2.12]$, and $C \in [6, 11]$

E. $A \in [-3.7, -2.4]$, $B \in [0.58, 1.57]$, and $C \in [3, 6]$

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

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

A. $x \in [0.88, 2.07]$

B. $x \in [6.57, 7.73]$

C. $x \in [-1.51, -0.61]$

D. $x \in [-0.43, 1.56]$

E. There are no real solutions.

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

solution.

$$-5(-7x+4) = -17(3x+11)$$

A. $x \in [-2.95, -2.23]$

B. $x \in [-2.19, -1.35]$

C. $x \in [-13.69, -12.92]$

D. $x \in [1.5, 2.69]$

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 $9x+5y = 15$ and passing through the point $(-5, -9)$.

   A. $m \in [0.25, 1.11]$ $b \in [4.22, 9.22]$

   B. $m \in [0.25, 1.11]$ $b \in [-8.22, -5.22]$

   C. $m \in [-1.22, -0.01]$ $b \in [-13.78, -7.78]$

   D. $m \in [1.37, 2.98]$ $b \in [-8.22, -5.22]$

   E. $m \in [0.25, 1.11]$ $b \in [-4, 1]$

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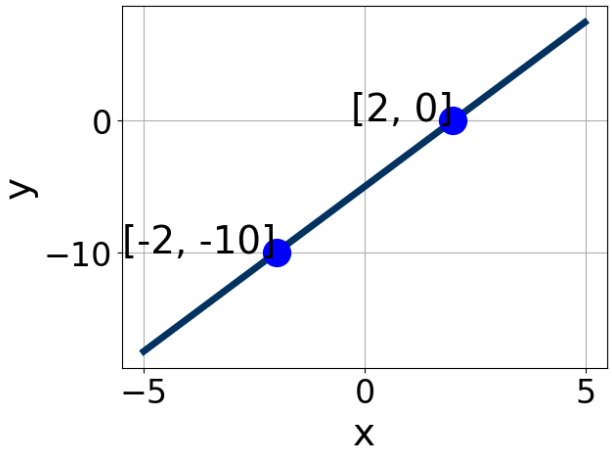
5. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-4, 0.2]$, $B \in [-1.01, -0.42]$, and $C \in [3, 7.6]$

B. $A \in [-4, 0.2]$, $B \in [-0.04, 1.63]$, and $C \in [-6.1, -3.8]$

C. $A \in [-6.2, -4.5]$, $B \in [1.89, 2.65]$, and $C \in [-10.4, -7]$

D. $A \in [4.2, 6.9]$, $B \in [1.89, 2.65]$, and $C \in [-10.4, -7]$

E. $A \in [4.2, 6.9]$, $B \in [-2.84, -1.35]$, and $C \in [9, 11.6]$

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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.

$$(9, -3) \text{ and } (3, 5)$$

A. $m \in [-13.33, 0.67]$ $b \in [-10.31, -7.79]$

B. $m \in [-13.33, 0.67]$ $b \in [-12.58, -10.87]$

C. $m \in [1.33, 4.33]$ $b \in [0.44, 1.27]$

D. $m \in [-13.33, 0.67]$ $b \in [8.18, 9.67]$

E. $m \in [-13.33, 0.67]$ $b \in [1.49, 2.97]$

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

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

A. $x \in [-0.2, 1.5]$

B. $x \in [1.6, 3.2]$

C. $x \in [-1.8, -0.9]$

D. $x \in [8.7, 13.3]$

E. There are no real solutions.

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

$$-12(6x + 18) = -2(-3x + 9)$$

A. $x \in [-3.57, -3.31]$

B. $x \in [-3.04, -2.93]$

C. $x \in [-2.94, -2.47]$

D. $x \in [2.86, 3.53]$

E. There are no real solutions.

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9. 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 $5x + 6y = 6$ and passing through the point $(4, -10)$.

A. $m \in [0.72, 0.97]$ $b \in [-13.58, -13.24]$

B. $m \in [-1.15, -0.77]$ $b \in [-6.8, -6.2]$

C. $m \in [-1.15, -0.77]$ $b \in [6.47, 6.88]$

D. $m \in [-1.6, -1.08]$ $b \in [-6.8, -6.2]$

E. $m \in [-1.15, -0.77]$ $b \in [-14.06, -13.78]$

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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.

$$(9, 2) \text{ and } (-7, 9)$$

A. $m \in [-0.88, -0.19]$ $b \in [2.94, 8.94]$

B. $m \in [-0.88, -0.19]$ $b \in [15, 17]$

C. $m \in [-0.88, -0.19]$ $b \in [-7, -6]$

D. $m \in [-0.88, -0.19]$ $b \in [-5.94, -0.94]$

E. $m \in [0.42, 0.79]$ $b \in [9.06, 13.06]$
