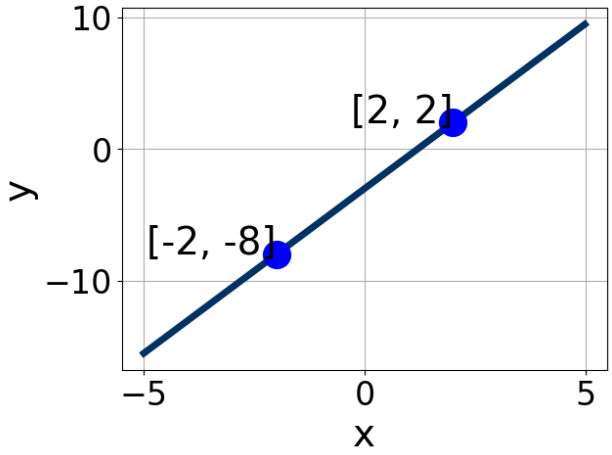
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-4.5, 1.5]$, $B \in [-1.75, -0.66]$, and $C \in [2.8, 5.3]$

B. $A \in [-6, -4]$, $B \in [1.93, 2.18]$, and $C \in [-7.2, -4.5]$

C. $A \in [2, 7]$, $B \in [1.93, 2.18]$, and $C \in [-7.2, -4.5]$

D. $A \in [-4.5, 1.5]$, $B \in [0.94, 1.4]$, and $C \in [-5.8, -0.6]$

E. $A \in [2, 7]$, $B \in [-2.8, -1.51]$, and $C \in [5.5, 9]$

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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 $8x + 3y = 7$ and passing through the point $(-5, 2)$.

A. $m \in [-2.67, -0.67]$ $b \in [5, 8]$

B. $m \in [1.67, 7.67]$ $b \in [12.33, 16.33]$

C. $m \in [-2.67, -0.67]$ $b \in [-16.33, -7.33]$

D. $m \in [-1.38, 2.62]$ $b \in [-16.33, -7.33]$

E. $m \in [-2.67, -0.67]$ $b \in [11.33, 13.33]$

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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.

$$(-10, 11) \text{ and } (-11, -9)$$

A. $m \in [18, 25]$ $b \in [210, 215]$

B. $m \in [-25, -17]$ $b \in [-231, -225]$

C. $m \in [18, 25]$ $b \in [19, 24]$

D. $m \in [18, 25]$ $b \in [-212, -206]$

E. $m \in [18, 25]$ $b \in [0, 5]$

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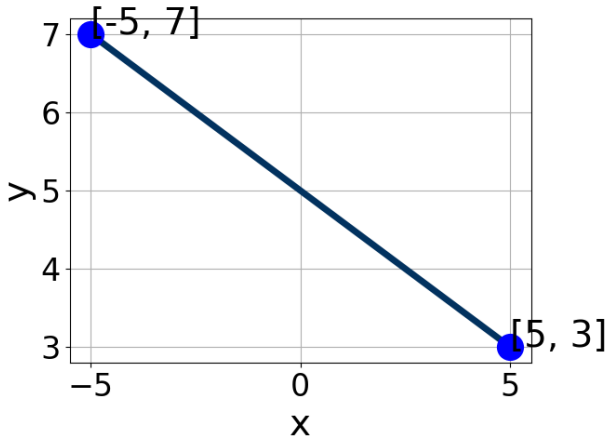
4. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [1.4, 4.4]$, $B \in [-5.2, -4.84]$, and $C \in [-30, -17]$

B. $A \in [-0.7, 1.7]$, $B \in [-2.64, -0.41]$, and $C \in [-7, -1]$

C. $A \in [1.4, 4.4]$, $B \in [4.05, 7.36]$, and $C \in [22, 31]$

D. $A \in [-0.7, 1.7]$, $B \in [0.1, 1.48]$, and $C \in [3, 7]$

E. $A \in [-3.4, -1.8]$, $B \in [-5.2, -4.84]$, and $C \in [-30, -17]$

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

$$-6(2x - 8) = -19(18x - 5)$$

A. $x \in [0.35, 0.41]$

B. $x \in [0.42, 0.51]$

C. $x \in [0.1, 0.18]$

D. $x \in [-0.48, -0.38]$

E. There are no real solutions.

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

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

A. $x \in [-1.45, 0.24]$

B. $x \in [10.88, 11.83]$

C. $x \in [1.85, 2.59]$

D. $x \in [-0.28, 0.81]$

E. There are no real solutions.

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7. 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.

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

A. $m \in [-0.2, 2.8]$ $b \in [-2.64, -2.4]$

B. $m \in [-0.2, 2.8]$ $b \in [3.62, 4.4]$

C. $m \in [-2.5, 0.1]$ $b \in [1.08, 2.11]$

D. $m \in [-0.2, 2.8]$ $b \in [1.62, 3.41]$

E. $m \in [-0.2, 2.8]$ $b \in [0.57, 1.23]$

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

A. $m \in [1.21, 2.36]$ $b \in [-17.7, -15.6]$

B. $m \in [-2.25, -1.14]$ $b \in [-1.6, -0.1]$

C. $m \in [-1.26, 0.15]$ $b \in [0.4, 1.5]$

D. $m \in [-2.25, -1.14]$ $b \in [0.4, 1.5]$

E. $m \in [-2.25, -1.14]$ $b \in [-13.5, -12]$

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

$$\frac{7x+4}{7} - \frac{-3x+7}{4} = \frac{9x+5}{6}$$

A. $x \in [-6.95, -4.95]$

B. $x \in [5.05, 12.05]$

C. $x \in [31, 34]$

D. $x \in [1.01, 6.01]$

E. There are no real solutions.

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

$$-2(8x-4) = -16(14x+15)$$

A. $x \in [-0.98, -0.85]$

B. $x \in [-1.21, -1.16]$

C. $x \in [-1.18, -1.06]$

D. $x \in [1.1, 1.21]$

E. There are no real solutions.
