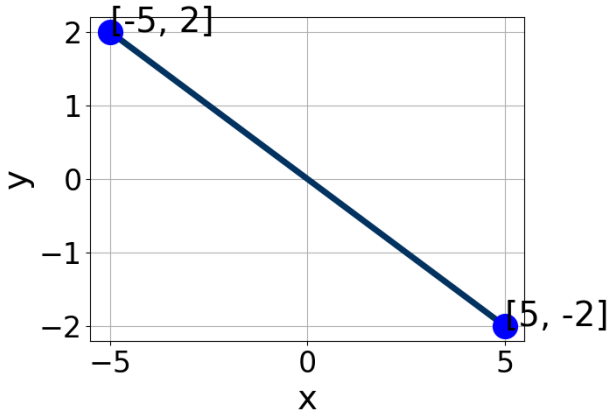
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.13, 1.63]$, $B \in [-3.6, 0.2]$, and $C \in [-2, 5]$

B. $A \in [1.51, 3.33]$, $B \in [3.2, 6.2]$, and $C \in [-2, 5]$

C. $A \in [0.13, 1.63]$, $B \in [-0.9, 4.6]$, and $C \in [-2, 5]$

D. $A \in [-3.4, -0.18]$, $B \in [-5.2, -4.6]$, and $C \in [-2, 5]$

E. $A \in [1.51, 3.33]$, $B \in [-5.2, -4.6]$, and $C \in [-2, 5]$

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

A. $m \in [-0.95, -0.15]$ $b \in [-11.6, -9.6]$

B. $m \in [-1.94, -1.04]$ $b \in [-0.9, 2]$

C. $m \in [-0.95, -0.15]$ $b \in [-0.9, 2]$

D. $m \in [-0.95, -0.15]$ $b \in [-1.7, 0.2]$

E. $m \in [0.54, 1.39]$ $b \in [-9.4, -7.9]$

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

$$-4(-5x - 3) = -18(6x + 12)$$

A. $x \in [1.49, 1.94]$

B. $x \in [-1.78, -1.56]$

C. $x \in [-2.06, -1.69]$

D. $x \in [-2.38, -2.2]$

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 $4x+5y = 14$ and passing through the point $(-5, -5)$.

   A. $m \in [-2.1, 0.04]$ $b \in [-11.88, -10.82]$

   B. $m \in [0.68, 1.08]$ $b \in [1.1, 1.34]$

   C. $m \in [1.15, 1.88]$ $b \in [-1.71, -1.06]$

   D. $m \in [1.15, 1.88]$ $b \in [1.1, 1.34]$

   E. $m \in [1.15, 1.88]$ $b \in [-0.29, 0.74]$

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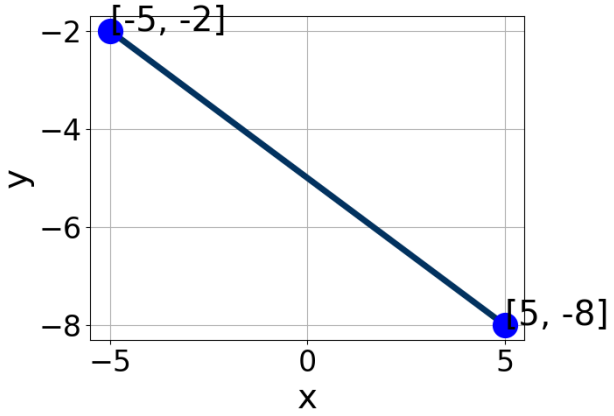
5. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



   A. $A \in [1, 11]$, $B \in [-7.5, -3.5]$, and $C \in [22, 28]$

   B. $A \in [-0.4, 2.6]$, $B \in [-4.7, 0.4]$, and $C \in [0, 7]$

C. $A \in [1, 11]$, $B \in [2.2, 7]$, and $C \in [-26, -21]$

D. $A \in [-0.4, 2.6]$, $B \in [0, 1.4]$, and $C \in [-7, 4]$

E. $A \in [-5, 0]$, $B \in [-7.5, -3.5]$, and $C \in [22, 28]$

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

$$\frac{-3x-5}{7} - \frac{-3x-9}{2} = \frac{8x-7}{4}$$

A. $x \in [10.85, 13.85]$

B. $x \in [0.69, 2.69]$

C. $x \in [-4.73, -2.73]$

D. $x \in [4.96, 7.96]$

E. There are no real solutions.

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

$$-6(-17x+19) = -11(7x+16)$$

A. $x \in [-3, -1.4]$

B. $x \in [11.4, 13.8]$

C. $x \in [-1.2, 0.6]$

D. $x \in [-0.2, 2.3]$

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.

$$(2, 3) \text{ and } (10, 5)$$

A. $m \in [-0.04, 0.77]$ $b \in [-3.17, -1.43]$

B. $m \in [-0.04, 0.77]$ $b \in [-6.63, -4.17]$

C. $m \in [-0.04, 0.77]$ $b \in [2.27, 2.65]$

D. $m \in [-0.61, -0.12]$ $b \in [5.96, 7.78]$

E. $m \in [-0.04, 0.77]$ $b \in [-0.25, 2.15]$

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

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

A. $x \in [-2.46, -1.69]$

B. $x \in [-9.71, -9.02]$

C. $x \in [-0.13, 0.7]$

D. $x \in [-1.22, -0.78]$

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.

$$(5, -5) \text{ and } (-10, 8)$$

A. $m \in [0.6, 4.6]$ $b \in [16.3, 17.2]$

B. $m \in [-1.3, -0.8]$ $b \in [-2.2, 0.1]$

C. $m \in [-1.3, -0.8]$ $b \in [-11.2, -8.6]$

D. $m \in [-1.3, -0.8]$ $b \in [17.6, 19]$

E. $m \in [-1.3, -0.8]$ $b \in [0.3, 2.2]$
