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

$$-11(-9x - 19) = -13(5x - 8)$$

   A. $x \in [1, 2]$

   B. $x \in [-2.9, -0.7]$

   C. $x \in [-1, 0.1]$

   D. $x \in [-9.6, -8.9]$

   E. There are no real solutions.

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

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

   A. $x \in [-0.4, 2]$

   B. $x \in [-15.4, -13.7]$

   C. $x \in [-1.9, -0.1]$

   D. $x \in [-2.6, -2]$

   E. There are no real solutions.

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3. 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 $9x + 7y = 6$ and passing through the point $(-7, -7)$.

   A. $m \in [-2.13, -1.25]$ $b \in [-17.7, -15.5]$

   B. $m \in [-2.13, -1.25]$ $b \in [-1.3, 0.5]$

   C. $m \in [-1.05, -0.64]$ $b \in [-17.7, -15.5]$

   D. $m \in [1.24, 1.65]$ $b \in [1.7, 5.3]$

   E. $m \in [-2.13, -1.25]$ $b \in [15.2, 16.2]$

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4. 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.

$$(-10, -7) \text{ and } (6, -2)$$

A. $m \in [0.2, 4.9] \quad b \in [-4.54, -3.33]$

B. $m \in [0.2, 4.9] \quad b \in [3.15, 3.98]$

C. $m \in [-3.7, -0.1] \quad b \in [-0.67, 0.5]$

D. $m \in [0.2, 4.9] \quad b \in [-8.11, -7.45]$

E. $m \in [0.2, 4.9] \quad b \in [2.91, 3.11]$

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5. 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.

$$(9, 5) \text{ and } (-10, 10)$$

A. $m \in [0.08, 0.81] \quad b \in [9.5, 14.1]$

B. $m \in [-0.41, -0.19] \quad b \in [-9.5, -7]$

C. $m \in [-0.41, -0.19] \quad b \in [7.2, 10.5]$

D. $m \in [-0.41, -0.19] \quad b \in [18.4, 22.6]$

E. $m \in [-0.41, -0.19] \quad b \in [-4.9, -1.8]$

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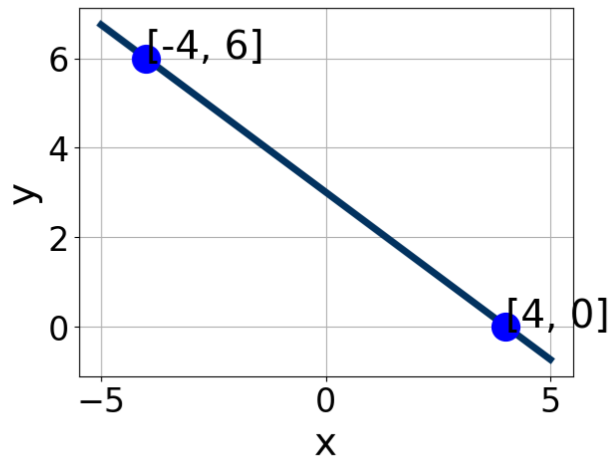
6. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.25, 2.75]$, $B \in [-2.5, -0.3]$, and $C \in [-4, 0]$

B. $A \in [-10, -1]$, $B \in [-4.8, -2.9]$, and $C \in [-17, -7]$

C. $A \in [2, 6]$, $B \in [1.7, 6.4]$, and $C \in [6, 15]$

D. $A \in [-1.25, 2.75]$, $B \in [0.5, 2.3]$, and $C \in [-1, 6]$

E. $A \in [2, 6]$, $B \in [-4.8, -2.9]$, and $C \in [-17, -7]$

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

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

A. $x \in [-2.47, 0.53]$

B. $x \in [-11.76, -4.76]$

C. $x \in [0.65, 3.65]$

D. $x \in [-32.59, -27.59]$

E. There are no real solutions.

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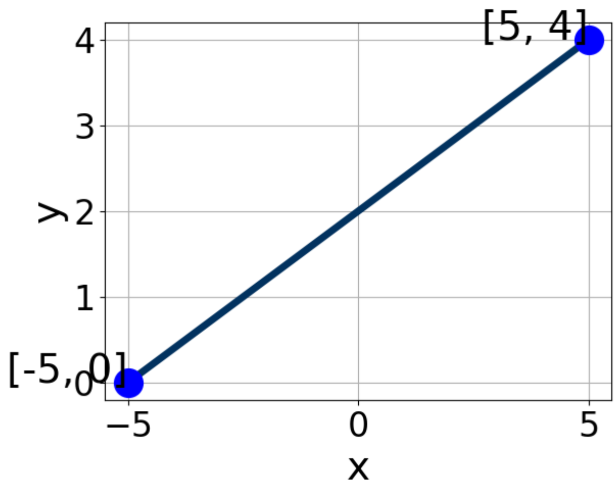
8. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-2.67, -1.99]$, $B \in [4.47, 6.67]$, and $C \in [9, 12]$

B. $A \in [-1.02, 0.67]$, $B \in [0.56, 1.7]$, and $C \in [-1, 7]$

C. $A \in [1.43, 2.26]$, $B \in [-5.01, -4.02]$, and $C \in [-11, -8]$

D. $A \in [1.43, 2.26]$, $B \in [4.47, 6.67]$, and $C \in [9, 12]$

E. $A \in [-1.02, 0.67]$, $B \in [-2.26, -0.01]$, and $C \in [-3, 1]$

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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.

Perpendicular to $5x + 4y = 3$ and passing through the point $(-5, 2)$.

A. $m \in [0.83, 1.26]$ $b \in [5.73, 6.88]$

B. $m \in [0.52, 0.93]$ $b \in [5.73, 6.88]$

C. $m \in [-0.89, -0.66]$ $b \in [-2.7, -1.71]$

D. $m \in [0.52, 0.93]$ $b \in [-6.63, -5.71]$

E. $m \in [0.52, 0.93]$ $b \in [6.97, 7.65]$

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

$$-12(-17x + 16) = -15(-18x - 13)$$

A. $x \in [-5.88, -5.83]$

B. $x \in [-0.06, -0.03]$

C. $x \in [-0.04, 0]$

D. $x \in [0.04, 0.08]$

E. There are no real solutions.
