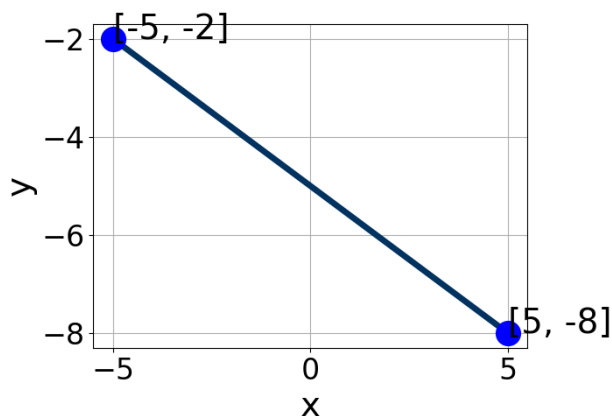1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.

  A. $A \in [1.1, 6.8]$, $B \in [4.4, 5.7]$, and $C \in [-29, -21]$

  B. $A \in [-1.5, 1.1]$, $B \in [0.7, 4.2]$, and $C \in [-5, -4]$

  C. $A \in [1.1, 6.8]$, $B \in [-6.3, -1.8]$, and $C \in [25, 30]$

  D. $A \in [-4.2, -0.7]$, $B \in [-6.3, -1.8]$, and $C \in [25, 30]$

  E. $A \in [-1.5, 1.1]$, $B \in [-1.4, 0.7]$, and $C \in [5, 8]$

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2. Solve the equation below. Then, choose the interval that contains the solution.
$$-17(6x - 18) = -13(9x + 5)$$

  A. $x \in [-27.73, -23.73]$

  B. $x \in [-20.07, -15.07]$

  C. $x \in [-1.9, 3.1]$

  D. $x \in [15.07, 18.07]$

  E. There are no real solutions.

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3. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{-7x - 9}{4} - \frac{-4x - 9}{2} = \frac{5x - 3}{8}$$

A. $x \in [6.6, 7.2]$

B. $x \in [-18.5, -15.4]$

C. $x \in [-1.3, 0.4]$

D. $x \in [7.9, 9]$

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

   A. $m \in [-1.6, 0.4] \;\; b \in [-12.2, -4.2]$

   B. $m \in [-1.6, 0.4] \;\; b \in [5.2, 12.2]$

   C. $m \in [-0.4, 2.6] \;\; b \in [0.2, 2.2]$

   D. $m \in [-1.6, 0.4] \;\; b \in [3, 7]$

   E. $m \in [-2.67, -0.67] \;\; b \in [-12.2, -4.2]$

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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.

   $$(-8, 10) \text{ and } (3, -6)$$

   A. $m \in [-1.96, -0.4] \;\; b \in [0.94, 2.54]$

   B. $m \in [-1.96, -0.4] \;\; b \in [-9.18, -7.8]$

   C. $m \in [1.03, 1.61] \;\; b \in [-10.99, -9.32]$

   D. $m \in [-1.96, -0.4] \;\; b \in [17.79, 19]$

   E. $m \in [-1.96, -0.4] \;\; b \in [-2.83, -0.36]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.
$$\frac{5x+4}{5} - \frac{7x-5}{4} = \frac{-3x-5}{3}$$

   A. $x \in [-15.2, -14.3]$

   B. $x \in [-56.2, -55.7]$

   C. $x \in [-7.1, -4.6]$

   D. $x \in [-3.9, -2.2]$

   E. There are no real solutions.

7. 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 $8x - 7y = 15$ and passing through the point $(-8, 6)$.

   A. $m \in [-1.1, -0.61]$ $b \in [0.86, 1.16]$

   B. $m \in [-1.37, -0.95]$ $b \in [-2.09, -0.58]$

   C. $m \in [-1.1, -0.61]$ $b \in [13.5, 14.51]$

   D. $m \in [-1.1, -0.61]$ $b \in [-2.09, -0.58]$

   E. $m \in [0.76, 1.11]$ $b \in [12.58, 13.02]$

8. Solve the equation below. Then, choose the interval that contains the solution.
$$-12(6x + 14) = -8(-18x - 5)$$

   A. $x \in [-0.7, -0.4]$

   B. $x \in [1.56, 2.02]$

   C. $x \in [0.31, 0.64]$

   D. $x \in [-1.27, -0.88]$

   E. There are no real solutions.

9. 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.

$$(-3, -11) \text{ and } (-7, -9)$$

  A. $m \in [-0.9, -0.3]$ $b \in [12.2, 15.9]$

  B. $m \in [-0.9, -0.3]$ $b \in [-9.9, -7.3]$

  C. $m \in [-0.9, -0.3]$ $b \in [-2.8, -0.2]$

  D. $m \in [-0.9, -0.3]$ $b \in [-14.3, -10.7]$

  E. $m \in [-0.4, 2.4]$ $b \in [-7.5, -2.5]$

10. 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.
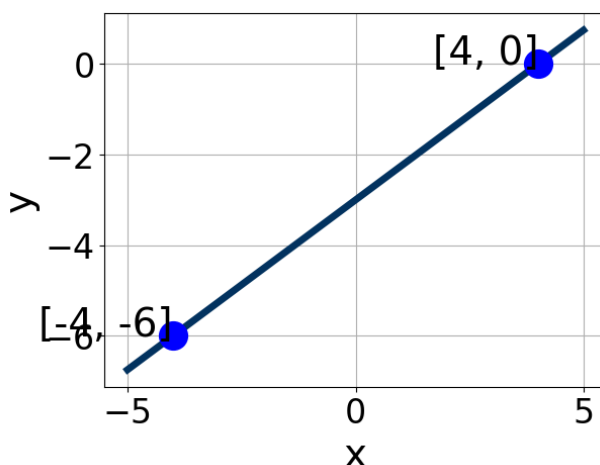
  A. $A \in [2.6, 4.1]$, $B \in [-5, -3]$,   and $C \in [9, 16]$

  B. $A \in [-1.6, 2.3]$, $B \in [0, 2]$,   and $C \in [-8, 1]$

  C. $A \in [-1.6, 2.3]$, $B \in [-1, 0]$,   and $C \in [1, 7]$

  D. $A \in [-3.2, -2.8]$, $B \in [3, 6]$,   and $C \in [-12, -10]$

  E. $A \in [2.6, 4.1]$, $B \in [3, 6]$,   and $C \in [-12, -10]$