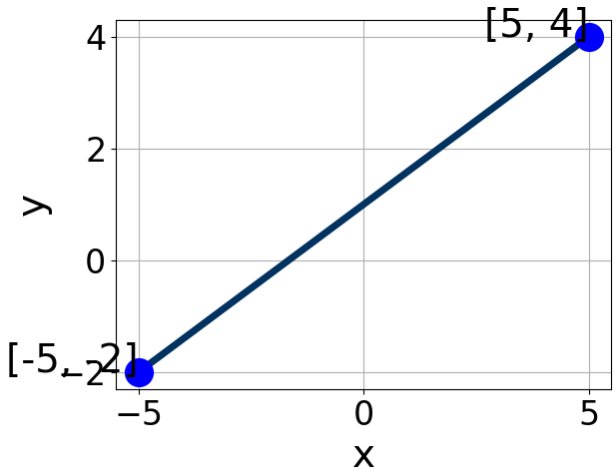
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-4.4, -0.9]$, $B \in [4.16, 5.59]$, and $C \in [2.8, 6.5]$

B. $A \in [-0.4, 5.4]$, $B \in [-5.9, -3.25]$, and $C \in [-8, -1.5]$

C. $A \in [-2.4, 2.5]$, $B \in [0.46, 2.4]$, and $C \in [-0.9, 2.3]$

D. $A \in [-2.4, 2.5]$, $B \in [-1.86, -0.55]$, and $C \in [-1.9, 0.1]$

E. $A \in [-0.4, 5.4]$, $B \in [4.16, 5.59]$, and $C \in [2.8, 6.5]$

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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.

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

A. $m \in [-2.8, -0.8]$ $b \in [14.2, 17.2]$

B. $m \in [-2.8, -0.8]$ $b \in [-5, -4]$

C. $m \in [-1.56, 0.44]$ $b \in [-20.2, -10.2]$

D. $m \in [-2.8, -0.8]$ $b \in [-20.2, -10.2]$

E. $m \in [1.8, 2.8]$ $b \in [-1.8, 3.2]$

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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.

$$(-4, 9) \text{ and } (-5, -9)$$

A. $m \in [-18, -16]$ $b \in [-105, -95]$

B. $m \in [13, 19]$ $b \in [-82, -75]$

C. $m \in [13, 19]$ $b \in [-6, 2]$

D. $m \in [13, 19]$ $b \in [76, 87]$

E. $m \in [13, 19]$ $b \in [10, 14]$

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

$$-7(8x - 16) = -9(6x + 17)$$

A. $x \in [0.7, 1.53]$

B. $x \in [-3.75, -3.31]$

C. $x \in [-2.27, -1.45]$

D. $x \in [-1.38, -0.04]$

E. There are no real solutions.

5.

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

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

A. $x \in [-1.26, -0.04]$

B. $x \in [-6.69, -6.22]$

C. $x \in [-22.62, -21.59]$

D. $x \in [-5.85, -5.61]$

E. There are no real solutions.