6. 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 $b$.

$$(-8, 8) \text{ and } (-2, -6)$$

$m =$ ☐ $b =$ ☐

A. $m \in [-6, 1]$ and $b \in [-4.8, -3.8]$

B. $m \in [-5, -2]$ and $b \in [-11.2, -10.5]$

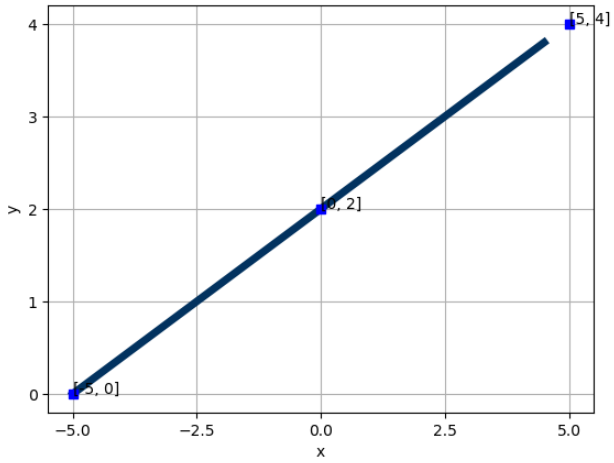
C. $m \in [1, 6]$ and $b \in [-2.1, 0.2]$

D. $m \in [-4, 0]$ and $b \in [10.1, 10.9]$

E. $m \in [-3, 0]$ and $b \in [14, 17]$

---

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




$A =$ ☐ $B =$ ☐ $C =$ ☐

A. $A \in [2.48, 2.76]$, $B \in [-1.22, -0.65]$, and $C \in [-3.7, 0.5]$

B. $A \in [4.6, 5.37]$, $B \in [-2.3, -1.15]$, and $C \in [-6.1, -2.8]$

C. $A \in [-5.4, -4.55]$, $B \in [1.69, 2.06]$, and $C \in [2.1, 4.5]$

D. $A \in [1.62, 2.11]$, $B \in [4.56, 5.4]$, and $C \in [6.3, 10.9]$

E. $A \in [0.24, 0.46]$, $B \in [0.5, 1.91]$, and $C \in [6.3, 10.9]$

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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 $9x - 7y = 5$ and passing through the point $(6, -10)$.

$m =$ ☐ $b =$ ☐

A. $m \in [0.91, 1.62]$ and $b \in [-19, -15]$

B. $m \in [1, 3]$ and $b \in [-2, 3]$

C. $m \in [-1.36, -1.1]$ and $b \in [-3, -2]$

D. $m \in [0.03, 1.06]$ and $b \in [-19, -17]$

E. $m \in [0, 2]$ and $b \in [17, 19]$

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

$$-10(-2x - 13) = -5(-6x + 3)$$

$x =$ ☐

A. $x \in [2, 4]$

B. $x \in [-4, -1]$

C. $x \in [12, 17]$

D. $x \in [7, 13]$

E. There are no Real solutions.

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

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

$x =$ ☐

A. $x \in [-2.9, 0]$

B. $x \in [-3.2, -3]$

C. $x \in [-5.9, -4.6]$

D. $x \in [1.1, 3]$

E. There are no Real solutions.

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