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.

$$(7, -5) \text{ and } (2, 2)$$

$m =$ ☐ $b =$ ☐

A. $m \in [-6, -1]$ and $b \in [4.63, 5.66]$

B. $m \in [-6, 2]$ and $b \in [-5.25, -4.47]$

C. $m \in [-3, 0]$ and $b \in [-12.9, -11.65]$

D. $m \in [-6, 2]$ and $b \in [-0.09, 0.91]$

E. $m \in [-1, 7]$ and $b \in [-1.48, -0.26]$

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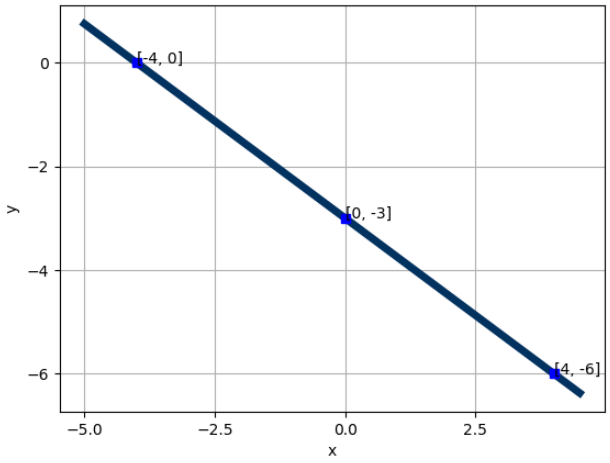
7. Write the equation of the line in the graph below in the form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



$A =$ ☐ $B =$ ☐ $C =$ ☐

A. $A \in [3.23, 4.62]$, $B \in [-3.1, -2.4]$, and $C \in [8, 10]$

B. $A \in [-3.51, -2.89]$, $B \in [-4.5, -3.1]$, and $C \in [10, 14]$

C. $A \in [2.6, 3.72]$, $B \in [2.6, 4.9]$, and $C \in [-20, -7]$

D. $A \in [0.26, 1.17]$, $B \in [-0.4, 2.7]$, and $C \in [-8, -2]$

E. $A \in [1.28, 1.95]$, $B \in [-1.9, -0.3]$, and $C \in [8, 10]$

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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 $7x + 4y = 11$ and passing through the point $(-2, 10)$.

$m =$ ☐ $b =$ ☐

A. $m \in [-5, 0]$ and $b \in [-9, -5]$

B. $m \in [1.2, 2]$ and $b \in [12, 16]$

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

D. $m \in [-1.2, -0.4]$ and $b \in [5, 9]$

E. $m \in [-2.9, -1.1]$ and $b \in [3, 8]$

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

$$-11(12x + 9) = -7(6x - 4)$$

$x =$ ☐

A. $x \in [0.72, 0.84]$

B. $x \in [-0.49, -0.23]$

C. $x \in [-1.53, -1.31]$

D. $x \in [-0.97, -0.6]$

E. There are no Real solutions.

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

$$\frac{5x + 5}{4} - \frac{4x - 4}{6} = \frac{5x - 8}{2}$$

$x =$ ☐

A. $x \in [8.64, 8.9]$

B. $x \in [2.38, 2.59]$

C. $x \in [2.71, 3.23]$

D. $x \in [1.28, 1.65]$

E. There are no Real solutions.
