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

$$-6(-3-13x) = -14(-9x+2)$$

A. $x \in [-0.36, -0.18]$

B. $x \in [0.56, 1.04]$

C. $x \in [0.14, 0.75]$

D. $x \in [-1.14, -0.94]$

E. There are no Real solutions.

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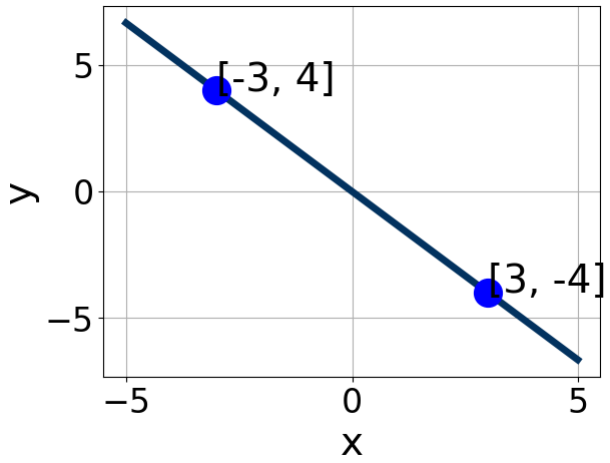
2. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-5.56, -2.52]$, $B \in [-3.38, -1.64]$, and $C \in [-7, 2]$

B. $A \in [3.85, 4.17]$, $B \in [1.62, 4.45]$, and $C \in [-7, 2]$

C. $A \in [0.13, 1.53]$, $B \in [0.98, 1.46]$, and $C \in [-7, 2]$

D. $A \in [2.34, 3.37]$, $B \in [-5.44, -3.89]$, and $C \in [-7, 2]$

E. $A \in [0.13, 1.53]$, $B \in [-1.09, -0.41]$, and $C \in [-7, 2]$

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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.

$$(-3, 8) \text{ and } (2, 9)$$

A. $m \in [-2, 1]$ and $b \in [-8.73, -7.72]$

B. $m \in [-0.04, 0.48]$ and $b \in [8.32, 9.06]$

C. $m \in [-4, 2]$ and $b \in [6, 7.62]$

D. $m \in [-2, 1]$ and $b \in [10.2, 11.22]$

E. $m \in [-0.41, -0.03]$ and $b \in [9.05, 9.64]$

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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.

Parallel to $4x - 7y = 5$ and passing through the point $(10, 5)$.

A. $m \in [-2, 3]$ and $b \in [0.52, 0.84]$

B. $m \in [-0.4, 0.6]$ and $b \in [-0.79, -0.31]$

C. $m \in [1.4, 1.9]$ and $b \in [-2, 2]$

D. $m \in [-2.5, 0.1]$ and $b \in [10.36, 11.19]$

E. $m \in [-1, 3]$ and $b \in [-0.34, 0.51]$

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

$$\frac{7x + 4}{3} - \frac{6x - 5}{8} = \frac{3x - 7}{6}$$

A. $x \in [-15.1, -13.5]$

B. $x \in [1.4, 1.6]$

C. $x \in [-2.1, -1.1]$

D. $x \in [-4, -2.4]$

E. There are no Real solutions.
