1. 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.

$$(5, -7) \text{ and } (2, -9)$$

A. $m \in [-2, 5]$ and $b \in [-11.48, -10.88]$

B. $m \in [-1, 5]$ and $b \in [-12.24, -11.61]$

C. $m \in [0, 4]$ and $b \in [-10.9, -10.2]$

D. $m \in [-2, 0]$ and $b \in [-8.03, -7.18]$

E. $m \in [-2, 5]$ and $b \in [9.49, 10.35]$

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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.

Parallel to $9x + 5y = 14$ and passing through the point $(-9, 8)$.

A. $m \in [-3, -1]$ and $b \in [6, 10]$

B. $m \in [-2.6, -1.7]$ and $b \in [-11, -7]$

C. $m \in [1, 2.9]$ and $b \in [22, 26]$

D. $m \in [-5, 0]$ and $b \in [-2, 1]$

E. $m \in [-1.4, 0.3]$ and $b \in [-10, -6]$

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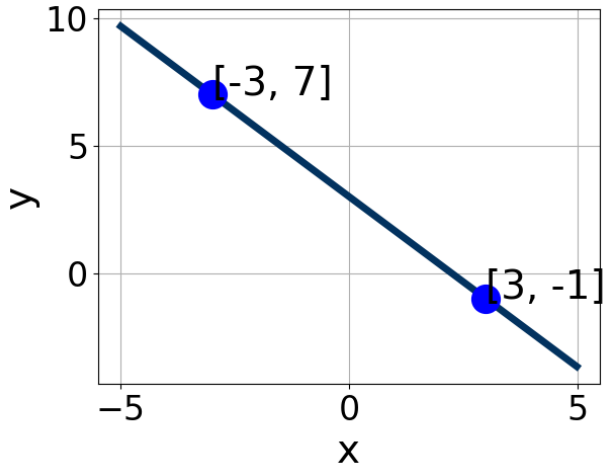
3. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.22, 1.74]$, $B \in [-1.68, -0.23]$, and $C \in [-13.4, -9.8]$

B. $A \in [-4.82, -3.74]$, $B \in [-3.81, -2.5]$, and $C \in [-9.9, -7]$

C. $A \in [2.18, 3.38]$, $B \in [-4.07, -3.11]$, and $C \in [-13.4, -9.8]$

D. $A \in [3.47, 5.34]$, $B \in [2.58, 3.1]$, and $C \in [8.1, 10.8]$

E. $A \in [-0.22, 1.74]$, $B \in [0.99, 2.44]$, and $C \in [-1, 6.6]$

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

$$-13(12 + 3x) = -5(-14x + 15)$$

A. $x \in [-2.82, -2.47]$

B. $x \in [-2.29, -1.83]$

C. $x \in [-1.14, -0.41]$

D. $x \in [0.72, 1.34]$

E. There are no Real solutions.

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

$$\frac{3x-5}{7} - \frac{-5x-4}{8} = \frac{9x+5}{2}$$

A. $x \in [-1.02, -0.17]$

B. $x \in [-3.07, -2.05]$

C. $x \in [-1.93, -1.37]$

D. $x \in [-1.63, -0.96]$

E. There are no Real solutions.
