

6. 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 $8x + 9y = 7$ and passing through the point $(3, -5)$.

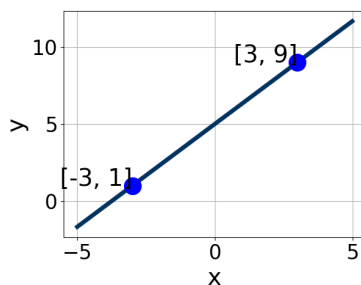
- A. $m \in [0.85, 1.06]$ and $b \in [-10, -7]$
- B. $m \in [-2, 2]$ and $b \in [7.9, 8.7]$
- C. $m \in [1, 2]$ and $b \in [-0.7, 0.8]$
- D. $m \in [0.95, 1.34]$ and $b \in [-9.2, -7.9]$
- E. $m \in [-1.34, -1.06]$ and $b \in [-2.2, -0.4]$

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

$$-14(13x - 5) = -15(-11x - 6)$$

- A. $x \in [-0.12, -0.01]$
- B. $x \in [1.17, 1.27]$
- C. $x \in [-0.03, 0.14]$
- D. $x \in [0.46, 0.51]$
- E. There are no Real solutions.

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8. 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. $A \in [-1.45, 0.5]$, $B \in [0.16, 1.18]$, and $C \in [16, 26]$
- B. $A \in [0.87, 1.1]$, $B \in [-1.22, -0.87]$, and $C \in [-10, -1]$
- C. $A \in [-4.22, -3.13]$, $B \in [2.43, 3.05]$, and $C \in [12, 18]$
- D. $A \in [2.46, 3.08]$, $B \in [3.82, 4.64]$, and $C \in [16, 26]$
- E. $A \in [3.18, 4.63]$, $B \in [-4.29, -2.08]$, and $C \in [-19, -12]$

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9. 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 .

$(-9, -6)$ and $(2, -5)$

- A. $m \in [-0.27, -0.04]$ and $b \in [-4.92, -4.5]$

- B. $m \in [-3, 5]$ and $b \in [-7.59, -6.69]$
 - C. $m \in [0.09, 0.24]$ and $b \in [-5.19, -5.15]$
 - D. $m \in [-4, 1]$ and $b \in [2.65, 3.14]$
 - E. $m \in [-1, 1]$ and $b \in [5.01, 5.7]$
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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x - 6}{5} - \frac{-5x + 8}{3} = \frac{9x - 4}{7}$$

- A. $x \in [-3.1, 0.4]$
 - B. $x \in [3, 4.6]$
 - C. $x \in [5.9, 8.9]$
 - D. $x \in [1.8, 3.2]$
 - E. There are no Real solutions.
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