1. 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 $4x + 3y = 6$ and passing through the point $(10, -8)$.

   A. $m \in [0.97, 2.36]$ $b \in [-16.5, -14.5]$

   B. $m \in [0.07, 0.87]$ $b \in [-16.5, -14.5]$

   C. $m \in [0.07, 0.87]$ $b \in [12.5, 17.5]$

   D. $m \in [0.07, 0.87]$ $b \in [-20, -17]$

   E. $m \in [-1.41, -0.68]$ $b \in [-4.5, 0.5]$

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

$$-13(-19x + 4) = -15(-12x - 14)$$

   A. $x \in [2.8, 5.9]$

   B. $x \in [2.1, 2.6]$

   C. $x \in [-3.4, -2.1]$

   D. $x \in [-0.8, 0.8]$

   E. There are no real solutions.

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

$$-10(8x - 11) = -14(15x - 16)$$

   A. $x \in [1.11, 1.46]$

   B. $x \in [0.75, 1.12]$

   C. $x \in [1.95, 3.03]$

   D. $x \in [-2.86, -2.24]$

   E. There are no real solutions.

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

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

A. $x \in [-1.83, -0.52]$

B. $x \in [-13.5, -11.91]$

C. $x \in [1.38, 2.31]$

D. $x \in [-0.48, 0.72]$

E. There are no real solutions.

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5. 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.

$$(-2, -10) \text{ and } (-3, 4)$$

A. $m \in [-14, -11]$ $b \in [-40, -32]$

B. $m \in [-14, -11]$ $b \in [34, 40]$

C. $m \in [-14, -11]$ $b \in [-8, -3]$

D. $m \in [14, 16]$ $b \in [39, 48]$

E. $m \in [-14, -11]$ $b \in [3, 12]$

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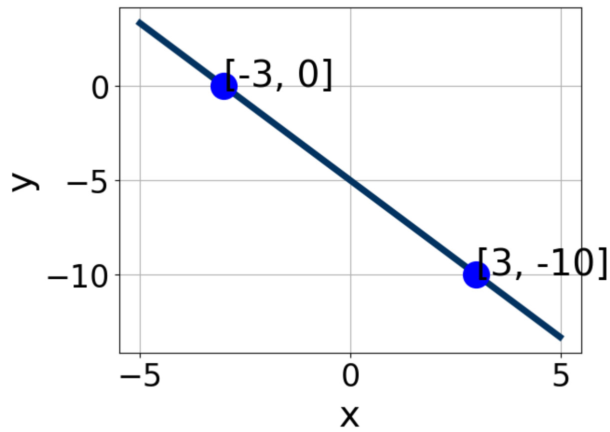
6. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3, 6], \quad B \in [2.04, 4], \text{ and } \quad C \in [-19, -12]$

B. $A \in [-5, 0], \quad B \in [-3.53, -2.92], \text{ and } \quad C \in [8, 18]$

C. $A \in [3, 6], \quad B \in [-3.53, -2.92], \text{ and } \quad C \in [8, 18]$

D. $A \in [0.67, 3.67], \quad B \in [-1.47, 0.35], \text{ and } \quad C \in [4, 11]$

E. $A \in [0.67, 3.67], \quad B \in [0.37, 1.26], \text{ and } \quad C \in [-5, -3]$

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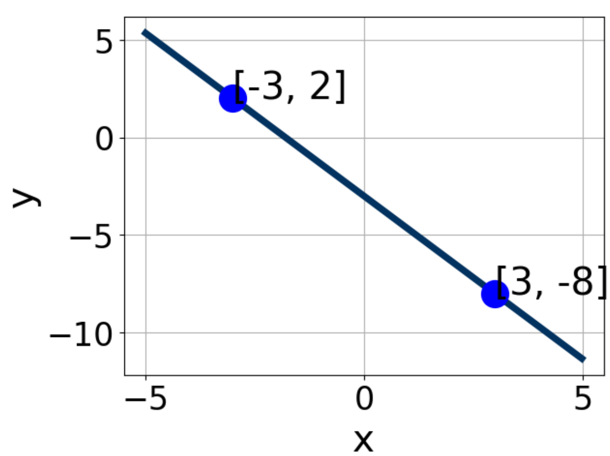
7. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-6.5, -3.5], \quad B \in [-4.44, -2.94], \text{ and } \quad C \in [8, 16]$

B. $A \in [-2.2, 3.6], \quad B \in [-1.79, -0.02], \text{ and } \quad C \in [0, 4]$

C. $A \in [-2.2, 3.6], \quad B \in [-0.43, 1.96], \text{ and } \quad C \in [-6, -2]$

D. $A \in [2.6, 6.8], \quad B \in [-4.44, -2.94], \text{ and } \quad C \in [8, 16]$

E. $A \in [2.6, 6.8], \quad B \in [2.62, 4.5], \text{ and } \quad C \in [-12, -8]$

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8. 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.

$$(9, -6) \text{ and } (-11, -5)$$

A. $m \in [-0.06, -0.05] \quad b \in [5.15, 5.76]$

B. $m \in [-0.06, -0.05] \quad b \in [-15.53, -14.69]$

C. $m \in [-0.06, -0.05] \quad b \in [-5.63, -5.32]$

D. $m \in [-0.04, 0.14] \quad b \in [-4.92, -4.38]$

E. $m \in [-0.06, -0.05] \quad b \in [5.91, 6.37]$

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9. 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 $8x + 5y = 12$ and passing through the point $(-5, 2)$.

A. $m \in [-2.52, -1.58] \quad b \in [4.6, 6.4]$

B. $m \in [0.6, 2.35] \quad b \in [9, 10.2]$

C. $m \in [-2.52, -1.58] \quad b \in [6.4, 8]$

D. $m \in [-2.52, -1.58] \quad b \in [-6.1, -3.3]$

E. $m \in [-0.84, 0.09] \quad b \in [-6.1, -3.3]$

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

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

A. $x \in [-0.6, 1.3]$

B. $x \in [11, 11.4]$

C. $x \in [1.3, 2.9]$

D. $x \in [3.8, 5.8]$

E. There are no real solutions.
