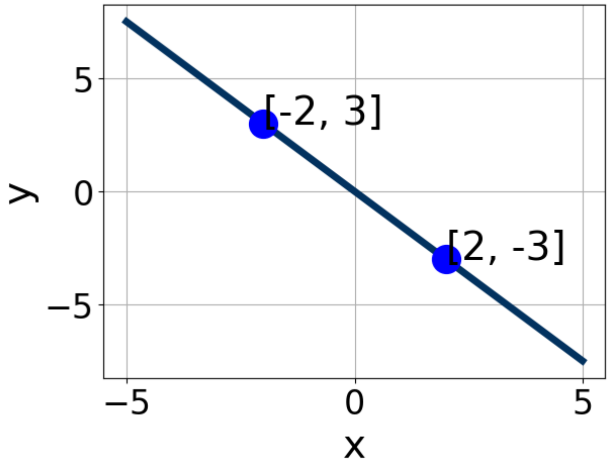
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.2, 4.6], \quad B \in [-2.63, -1.61], \text{ and } \quad C \in [-3, 2]$

B. $A \in [-0.3, 2.1], \quad B \in [0.88, 1.2], \text{ and } \quad C \in [-3, 2]$

C. $A \in [2.2, 4.6], \quad B \in [1.41, 2.5], \text{ and } \quad C \in [-3, 2]$

D. $A \in [-0.3, 2.1], \quad B \in [-1.02, -0.99], \text{ and } \quad C \in [-3, 2]$

E. $A \in [-3.9, -0.7], \quad B \in [-2.63, -1.61], \text{ and } \quad C \in [-3, 2]$

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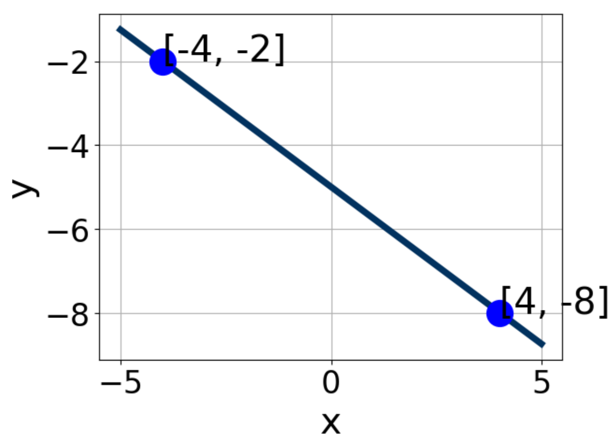
2. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [1.9, 3.7], \quad B \in [3.6, 5], \text{ and } \quad C \in [-22, -15]$

B. $A \in [0.4, 2.7], \quad B \in [-1.3, -0.5], \text{ and } \quad C \in [4, 11]$

C. $A \in [0.4, 2.7]$, $B \in [0.5, 2]$, and $C \in [-11, 1]$

D. $A \in [1.9, 3.7]$, $B \in [-4.3, -3.5]$, and $C \in [19, 24]$

E. $A \in [-5.8, -0.2]$, $B \in [-4.3, -3.5]$, and $C \in [19, 24]$

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3. 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 $8x - 9y = 4$ and passing through the point $(-8, -6)$.

A. $m \in [1.06, 1.28]$ $b \in [-0.2, 1.2]$

B. $m \in [0.35, 1.1]$ $b \in [-2.9, -0.2]$

C. $m \in [0.35, 1.1]$ $b \in [-0.2, 1.2]$

D. $m \in [0.35, 1.1]$ $b \in [1.7, 2.5]$

E. $m \in [-1.02, 0.67]$ $b \in [-14.3, -11.8]$

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4. 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.

$$(-10, -6) \text{ and } (11, -11)$$

A. $m \in [-0.28, -0.15]$ $b \in [-12.38, -5.38]$

B. $m \in [-0.28, -0.15]$ $b \in [-22, -14]$

C. $m \in [-0.28, -0.15]$ $b \in [0, 5]$

D. $m \in [-0.28, -0.15]$ $b \in [5.38, 10.38]$

E. $m \in [0.04, 0.53]$ $b \in [-14.62, -11.62]$

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

$$-17(-9x - 7) = -8(10x - 14)$$

A. $x \in [0.48, 1.32]$

B. $x \in [-1.05, -0.62]$

C. $x \in [-0.19, 0.24]$

D. $x \in [-3.76, -1.74]$

E. There are no real solutions.

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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.

Parallel to $9x + 5y = 10$ and passing through the point $(4, -10)$.

A. $m \in [-3.7, -1.1] \quad b \in [2.8, 4.8]$

B. $m \in [-3.7, -1.1] \quad b \in [-14, -11]$

C. $m \in [1.2, 3.1] \quad b \in [-19.2, -16.2]$

D. $m \in [-3.7, -1.1] \quad b \in [-6.8, -0.8]$

E. $m \in [-1.5, 0.3] \quad b \in [-6.8, -0.8]$

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

$$-4(18x - 3) = -6(-9x + 2)$$

A. $x \in [-0.17, 0.06]$

B. $x \in [-0.17, 0.06]$

C. $x \in [0.12, 0.54]$

D. $x \in [-0.17, 0.06]$

E. There are no real solutions.

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

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

A. $x \in [4.1, 6.5]$

B. $x \in [2.8, 4.3]$

C. $x \in [12.6, 15]$

D. $x \in [-1, 2.8]$

E. There are no real solutions.

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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.

$$(9, -4) \text{ and } (-2, -8)$$

A. $m \in [0, 0.65] \quad b \in [-13.21, -12.67]$

B. $m \in [0, 0.65] \quad b \in [6.64, 9.55]$

C. $m \in [0, 0.65] \quad b \in [-7.46, -6.96]$

D. $m \in [-0.93, 0.29] \quad b \in [-10.03, -7.79]$

E. $m \in [0, 0.65] \quad b \in [-6.97, -4.84]$

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

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

A. $x \in [-0.3, 1.2]$

B. $x \in [-3, -1.8]$

C. $x \in [-1.1, -0.1]$

D. $x \in [-9, -6.9]$

E. There are no real solutions.
