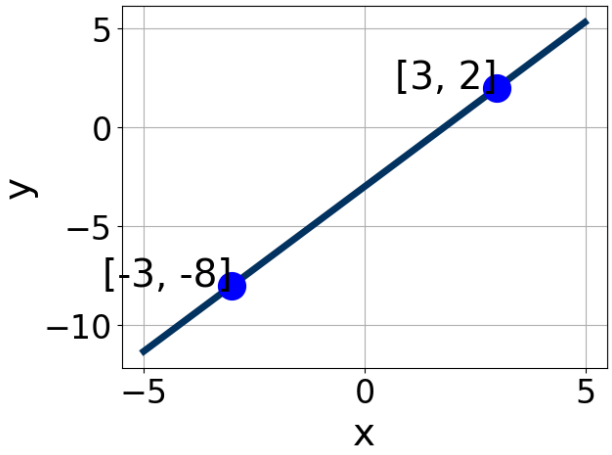
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2, 8]$, $B \in [-4.2, -1.5]$, and $C \in [8.4, 9.3]$

B. $A \in [-5, -2]$, $B \in [2.5, 5.1]$, and $C \in [-9.1, -8.1]$

C. $A \in [-3.67, 1.33]$, $B \in [-0.9, 1.8]$, and $C \in [-4.4, -1.4]$

D. $A \in [2, 8]$, $B \in [2.5, 5.1]$, and $C \in [-9.1, -8.1]$

E. $A \in [-3.67, 1.33]$, $B \in [-2.8, -0.4]$, and $C \in [2.2, 3.7]$

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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 $3x + 4y = 4$ and passing through the point $(7, 4)$.

A. $m \in [-0.96, -0.49]$ $b \in [-10.8, -8]$

B. $m \in [0.65, 0.87]$ $b \in [-1.9, 0.4]$

C. $m \in [-1.77, -0.82]$ $b \in [8.7, 11.3]$

D. $m \in [-0.96, -0.49]$ $b \in [8.7, 11.3]$

E. $m \in [-0.96, -0.49]$ $b \in [-3.8, -2.7]$

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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.

$$(-8, -11) \text{ and } (8, 2)$$

A. $m \in [0.1, 1.6]$ $b \in [-3.1, -2.69]$

B. $m \in [0.1, 1.6]$ $b \in [-4.77, -4.28]$

C. $m \in [0.1, 1.6]$ $b \in [-6.24, -5.26]$

D. $m \in [-2.6, 0]$ $b \in [7.22, 9.11]$

E. $m \in [0.1, 1.6]$ $b \in [3.65, 4.78]$

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

$$-4(12x + 17) = -18(2x - 19)$$

A. $x \in [-12.99, -12.04]$

B. $x \in [-4.33, -2.85]$

C. $x \in [-3.51, -2.14]$

D. $x \in [9.16, 9.54]$

E. There are no real solutions.

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

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

A. $x \in [-11.22, -5.22]$

B. $x \in [-2.07, 3.93]$

C. $x \in [-37, -30]$

D. $x \in [-5.62, -3.62]$

E. There are no real solutions.

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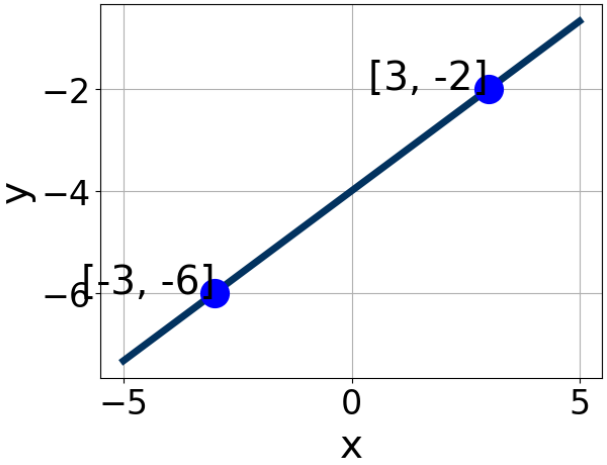
6. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2, 4]$, $B \in [-3.68, -2.68]$, and $C \in [11, 13]$

B. $A \in [2, 4]$, $B \in [2.58, 3.41]$, and $C \in [-16, -9]$

C. $A \in [-0.67, 0.33]$, $B \in [-0.49, 1.59]$, and $C \in [-5, -2]$

D. $A \in [-0.67, 0.33]$, $B \in [-1.23, -0.63]$, and $C \in [3, 7]$

E. $A \in [-8, -1]$, $B \in [2.58, 3.41]$, and $C \in [-16, -9]$

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7. 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 $4x + 9y = 11$ and passing through the point $(-3, 4)$.

A. $m \in [-1.7, 1]$ $b \in [7.75, 13.75]$

B. $m \in [-3.1, -1.7]$ $b \in [-2.75, 1.25]$

C. $m \in [1.1, 6]$ $b \in [7.75, 13.75]$

D. $m \in [1.1, 6]$ $b \in [6, 10]$

E. $m \in [1.1, 6]$ $b \in [-10.75, -9.75]$

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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.

$$(8, -9) \text{ and } (-8, -10)$$

A. $m \in [0.02, 0.45]$ $b \in [-4.08, -1.06]$

B. $m \in [0.02, 0.45]$ $b \in [-10.15, -9.23]$

C. $m \in [0.02, 0.45]$ $b \in [8.54, 10.47]$

D. $m \in [0.02, 0.45]$ $b \in [-18.25, -15.24]$

E. $m \in [-0.98, 0.04]$ $b \in [-10.83, -9.77]$

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

$$-10(8x + 15) = -16(-7x - 13)$$

A. $x \in [-2, -0.1]$

B. $x \in [-8.8, -6.5]$

C. $x \in [-4, -2.6]$

D. $x \in [0.4, 2.7]$

E. There are no real solutions.

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

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

A. $x \in [4.1, 5.4]$

B. $x \in [14.7, 17.1]$

C. $x \in [-0.6, 0.4]$

D. $x \in [1.9, 3.2]$

E. There are no real solutions.
