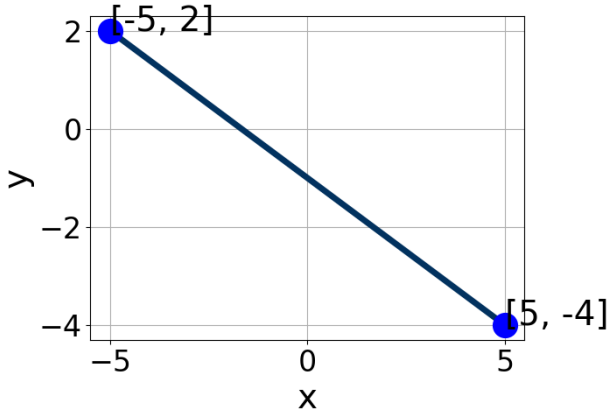
1. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.5, 1.8]$, $B \in [-0.65, 2.42]$, and $C \in [-1.8, -0.4]$

B. $A \in [1, 4.9]$, $B \in [4.55, 5.7]$, and $C \in [-6.5, -3.6]$

C. $A \in [1, 4.9]$, $B \in [-5.19, -3.45]$, and $C \in [4.7, 7.2]$

D. $A \in [-0.5, 1.8]$, $B \in [-1.07, -0.63]$, and $C \in [0.4, 4.2]$

E. $A \in [-3.2, -0.2]$, $B \in [-5.19, -3.45]$, and $C \in [4.7, 7.2]$

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

$$-5(-18x - 4) = -14(-9x - 16)$$

A. $x \in [-5.13, 2.87]$

B. $x \in [4.78, 10.78]$

C. $x \in [-5.67, -4.67]$

D. $x \in [-6.78, -5.78]$

E. There are no real solutions.

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

$$-12(9x + 16) = -3(-6x + 13)$$

A. $x \in [-2.94, -2.3]$

B. $x \in [-2.55, -1.5]$

C. $x \in [-1.65, -1.07]$

D. $x \in [0.42, 2.59]$

E. There are no real solutions.

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4. 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 $7x-4y = 12$ and passing through the point $(-5, -3)$.

   A. $m \in [-1.6, -0.2]$ $b \in [-6.86, -3.86]$

   B. $m \in [-1.6, -0.2]$ $b \in [3.86, 9.86]$

   C. $m \in [-1.6, -0.2]$ $b \in [2, 4]$

   D. $m \in [-0.1, 3.3]$ $b \in [-1.14, 0.86]$

   E. $m \in [-4.7, -1.7]$ $b \in [-6.86, -3.86]$

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5. 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 $4x + 7y = 5$ and passing through the point $(9, 6)$.

   A. $m \in [0.68, 2.58]$ $b \in [-5, -2]$

   B. $m \in [0.68, 2.58]$ $b \in [-11.75, -4.75]$

   C. $m \in [0.68, 2.58]$ $b \in [9.75, 11.75]$

   D. $m \in [-2.18, -0.97]$ $b \in [21.75, 27.75]$

   E. $m \in [0.35, 1]$ $b \in [-11.75, -4.75]$

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6. 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.

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

A. $m \in [8, 11]$ $b \in [55, 56]$

B. $m \in [-10, -9]$ $b \in [42, 49]$

C. $m \in [8, 11]$ $b \in [-1, 7]$

D. $m \in [8, 11]$ $b \in [-57, -51]$

E. $m \in [8, 11]$ $b \in [-11, -8]$

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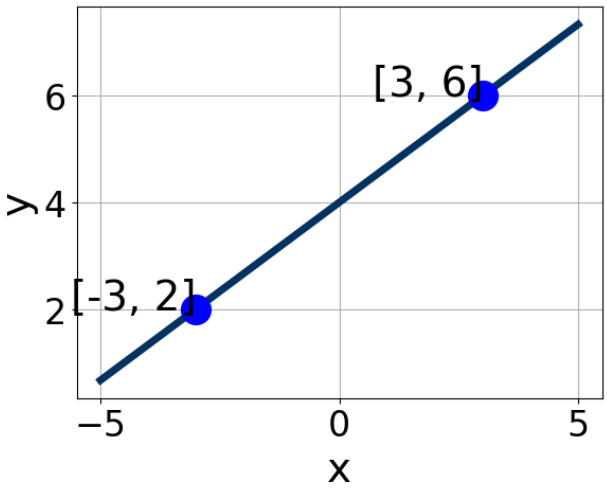
7. Write the equation of the line in the graph below in Standard form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.3, 0.3]$, $B \in [-1.3, -0.76]$, and $C \in [-6, -3]$

B. $A \in [0.8, 2.9]$, $B \in [-3.59, -2.38]$, and $C \in [-14, -10]$

C. $A \in [-2.1, -1.9]$, $B \in [2.99, 3.06]$, and $C \in [12, 15]$

D. $A \in [-1.3, 0.3]$, $B \in [0.32, 2.37]$, and $C \in [1, 6]$

E. $A \in [0.8, 2.9]$, $B \in [2.99, 3.06]$, and $C \in [12, 15]$

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

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

A. $x \in [-3.87, -1.87]$

B. $x \in [50.4, 54.4]$

C. $x \in [0.66, 3.66]$

D. $x \in [9.13, 16.13]$

E. There are no real solutions.

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

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

A. $x \in [-37.6, -32.6]$

B. $x \in [-2.11, 0.89]$

C. $x \in [-15.4, -6.4]$

D. $x \in [3, 4]$

E. There are no real solutions.

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10. 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.

$$(8, -4) \text{ and } (-2, 6)$$

A. $m \in [-1.5, -0.5]$ $b \in [-4, -1]$

B. $m \in [-0.1, 3.3]$ $b \in [7, 13]$

C. $m \in [-1.5, -0.5]$ $b \in [3, 6]$

D. $m \in [-1.5, -0.5]$ $b \in [-13, -5]$

E. $m \in [-1.5, -0.5]$ $b \in [7, 13]$