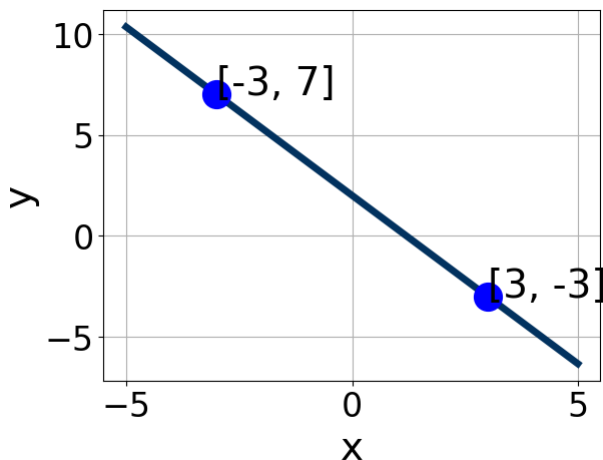


1. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(-8x - 12) = -4(-19x + 15)$$

- A.  $x \in [-0.62, -0.34]$
- B.  $x \in [0.06, 0.35]$
- C.  $x \in [-1.1, -0.5]$
- D.  $x \in [-3.53, -2.67]$
- E. There are no real solutions.

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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.  $A \in [-4, 2]$ ,  $B \in [0.13, 1.93]$ , and  $C \in [0.8, 4.2]$
- B.  $A \in [-4, 2]$ ,  $B \in [-2.24, 0.86]$ , and  $C \in [-4.8, 1]$
- C.  $A \in [4, 6]$ ,  $B \in [-4.05, -2.43]$ , and  $C \in [-8.4, -5.5]$
- D.  $A \in [-13, -2]$ ,  $B \in [-4.05, -2.43]$ , and  $C \in [-8.4, -5.5]$
- E.  $A \in [4, 6]$ ,  $B \in [2.51, 4.4]$ , and  $C \in [3.8, 7]$

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  $7x + 3y = 7$  and passing through the point  $(-2, 9)$ .

- A.  $m \in [-1.3, 0.3]$   $b \in [3, 10]$
  - B.  $m \in [-4.7, -1.1]$   $b \in [-9, -1]$
  - C.  $m \in [0.8, 3.5]$   $b \in [12, 21]$
  - D.  $m \in [-4.7, -1.1]$   $b \in [10, 12]$
  - E.  $m \in [-4.7, -1.1]$   $b \in [3, 10]$
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4. Solve the linear equation below. Then, choose the interval that contains the solution.

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

- A.  $x \in [4.3, 5.5]$
  - B.  $x \in [-4, -2.2]$
  - C.  $x \in [-1.4, 0.5]$
  - D.  $x \in [-2, -0.2]$
  - 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  $b$ .

$(11, 7)$  and  $(-5, -4)$

- A.  $m \in [-0.2, 2.6]$   $b \in [-4.5, -3.75]$
- B.  $m \in [-0.2, 2.6]$   $b \in [0.22, 0.75]$

C.  $m \in [-2.7, 0.3]$   $b \in [-7.65, -7.07]$

D.  $m \in [-0.2, 2.6]$   $b \in [-1.29, -0.34]$

E.  $m \in [-0.2, 2.6]$   $b \in [0.89, 1.69]$

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