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.

   Parallel to $6x - 7y = 4$ and passing through the point $(2, 8)$.

   A. $m \in [0.8, 0.88]$ $b \in [6.25, 6.43]$

   B. $m \in [0.8, 0.88]$ $b \in [-7.04, -6.05]$

   C. $m \in [-1.62, -0.62]$ $b \in [9.25, 10.45]$

   D. $m \in [0.8, 0.88]$ $b \in [5.56, 6.22]$

   E. $m \in [1.05, 1.62]$ $b \in [6.25, 6.43]$

---

2. 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.

   $(10, -8)$ and $(-6, -3)$

   A. $m \in [-0.61, -0.24]$ $b \in [-19.8, -17.4]$

   B. $m \in [-0.3, 0.37]$ $b \in [-2, 2.5]$

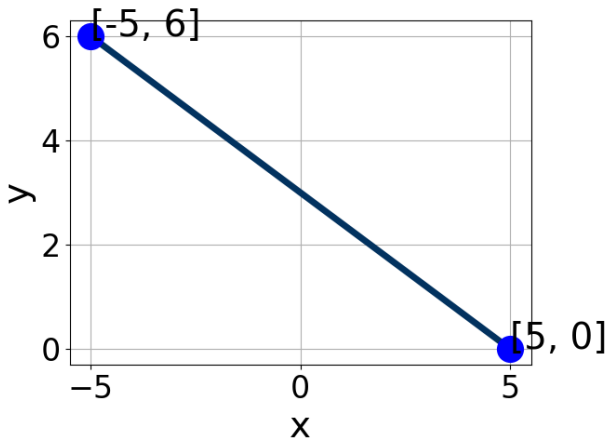
   C. $m \in [-0.61, -0.24]$ $b \in [4.2, 5.5]$

   D. $m \in [-0.61, -0.24]$ $b \in [-5.7, -4.6]$

   E. $m \in [-0.61, -0.24]$ $b \in [-0.2, 4]$

---

3. 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. $A \in [0.9, 4.1]$, $B \in [4.8, 5.1]$, and $C \in [14, 17]$

B. $A \in [-4.4, -1.8]$, $B \in [-5.2, -3.5]$, and $C \in [-15, -9]$

C. $A \in [-0.8, 1.3]$, $B \in [-1.6, -0.7]$, and $C \in [-6, -2]$

D. $A \in [0.9, 4.1]$, $B \in [-5.2, -3.5]$, and $C \in [-15, -9]$

E. $A \in [-0.8, 1.3]$, $B \in [-0.3, 1.8]$, and $C \in [2, 5]$

---

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.

$$(-11, 9) \text{ and } (-3, -2)$$

A. $m \in [-3.4, -0.1]$ $b \in [-0.7, 1.6]$

B. $m \in [-0.9, 4.7]$ $b \in [1.4, 4.4]$

C. $m \in [-3.4, -0.1]$ $b \in [19.1, 21.1]$

D. $m \in [-3.4, -0.1]$ $b \in [-6.7, -2.1]$

E. $m \in [-3.4, -0.1]$ $b \in [6, 6.8]$

---

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

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

A. $x \in [-1.28, 0.5]$

B. $x \in [-3.11, -1.84]$

C. $x \in [-13.75, -13.38]$

D. $x \in [-2.79, -1.42]$

E. There are no real solutions.

---

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

$$-4(12x - 17) = -6(10x + 9)$$

A. $x \in [-10.5, -9.85]$

B. $x \in [-0.46, 0.83]$

C. $x \in [0.22, 1.43]$

D. $x \in [-1.41, -0.59]$

E. There are no real solutions.

---

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

A. $m \in [1.7, 3.5]$ $b \in [31.5, 33.5]$

B. $m \in [1.7, 3.5]$ $b \in [18, 25]$

C. $m \in [-3, -0.9]$ $b \in [-17.5, -10.5]$

D. $m \in [1.7, 3.5]$ $b \in [-34.5, -29.5]$

E. $m \in [-1.4, 1.1]$ $b \in [31.5, 33.5]$

---

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

$$-11(-10x + 14) = -18(5x + 2)$$

A. $x \in [9.41, 9.62]$

B. $x \in [0.92, 1.59]$

C. $x \in [-1.27, -0.82]$

D. $x \in [0.59, 0.71]$

E. There are no real solutions.

---

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

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

A. $x \in [418, 422]$

B. $x \in [-1.63, 2.37]$

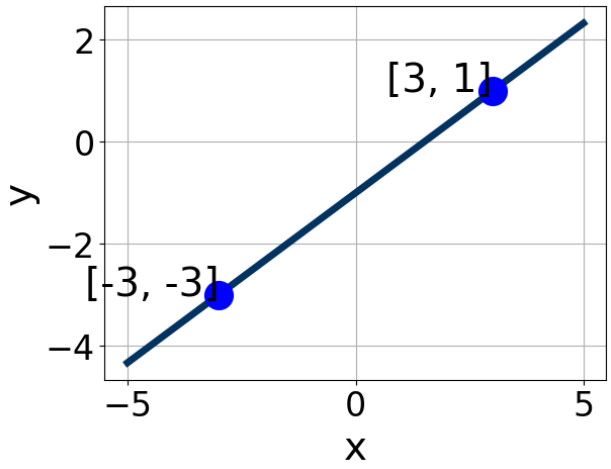
C. $x \in [122, 126]$

D. $x \in [24, 27]$

E. There are no real solutions.

---

10. 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. $A \in [-2.8, -1.8]$, $B \in [2.85, 3.32]$, and $C \in [-6.2, -2.5]$

B. $A \in [-0.4, 5]$, $B \in [-3.88, -2.51]$, and $C \in [1.7, 5.3]$

C. $A \in [-0.4, 5]$, $B \in [2.85, 3.32]$, and $C \in [-6.2, -2.5]$

D. $A \in [-1.8, 1.6]$, $B \in [0.1, 1.66]$, and $C \in [-1.6, -0.2]$

E. $A \in [-1.8, 1.6]$, $B \in [-2.63, 0.26]$, and $C \in [-0.9, 2.1]$
