



For each system of equations determine the point of intersection in a graph.

Answers

1) 
$$\begin{cases} y = -1.75x + 9 \\ y = -1.5x + 7 \end{cases}$$

2) 
$$\begin{cases} y = 0.2x + 3 \\ y = 0.6x + 5 \end{cases}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

3) 
$$\begin{cases} y = -1.5x - 9 \\ y = -0.75x - 3 \end{cases}$$

4) 
$$\begin{cases} y = -0.2x + 4 \\ y = 0.2x + 2 \end{cases}$$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

5) 
$$\begin{cases} y = -0.4x + 1 \\ y = -0.6x + 2 \end{cases}$$

6) 
$$\begin{cases} y = -0.1x - 4 \\ y = -1.2x + 7 \end{cases}$$

9. \_\_\_\_\_

10. \_\_\_\_\_

7) 
$$\begin{cases} y = -2.5x - 5 \\ y = -7.5x + 5 \end{cases}$$

8) 
$$\begin{cases} y = 0.1x + 0 \\ y = -0.3x - 4 \end{cases}$$

9) 
$$\begin{cases} y = -0.6x - 2 \\ y = 0.2x + 2 \end{cases}$$

10) 
$$\begin{cases} y = -1.75x + 0 \\ y = -2.25x - 2 \end{cases}$$



For each system of equations determine the point of intersection in a graph.

Answers

$$1) \begin{cases} y = -1.75x + 9 \\ y = -1.5x + 7 \end{cases}$$

$$-1.75x + 9 = -1.5x + 7$$

$$-0.25x = -2$$

$$1x = 8$$

$$y = (-1.75 \times 8) + 9$$

$$y = (-1.5 \times 8) + 7$$

$$2) \begin{cases} y = 0.2x + 3 \\ y = 0.6x + 5 \end{cases}$$

$$0.2x + 3 = 0.6x + 5$$

$$-0.4x = 2$$

$$1x = -5$$

$$y = (0.2 \times -5) + 3$$

$$y = (0.6 \times -5) + 5$$

$$3) \begin{cases} y = -1.5x - 9 \\ y = -0.75x - 3 \end{cases}$$

$$-1.5x - 9 = -0.75x - 3$$

$$-0.75x = 6$$

$$1x = -8$$

$$y = (-1.5 \times -8) - 9$$

$$y = (-0.75 \times -8) - 3$$

$$4) \begin{cases} y = -0.2x + 4 \\ y = 0.2x + 2 \end{cases}$$

$$-0.2x + 4 = 0.2x + 2$$

$$-0.4x = -2$$

$$1x = 5$$

$$y = (-0.2 \times 5) + 4$$

$$y = (0.2 \times 5) + 2$$

$$5) \begin{cases} y = -0.4x + 1 \\ y = -0.6x + 2 \end{cases}$$

$$-0.4x + 1 = -0.6x + 2$$

$$0.2x = 1$$

$$1x = 5$$

$$y = (-0.4 \times 5) + 1$$

$$y = (-0.6 \times 5) + 2$$

$$6) \begin{cases} y = -0.1x - 4 \\ y = -1.2x + 7 \end{cases}$$

$$-0.1x - 4 = -1.2x + 7$$

$$1.1x = 11$$

$$1x = 10$$

$$y = (-0.1 \times 10) - 4$$

$$y = (-1.2 \times 10) + 7$$

$$7) \begin{cases} y = -2.5x - 5 \\ y = -7.5x + 5 \end{cases}$$

$$-2.5x - 5 = -7.5x + 5$$

$$5x = 10$$

$$1x = 2$$

$$y = (-2.5 \times 2) - 5$$

$$y = (-7.5 \times 2) + 5$$

$$8) \begin{cases} y = 0.1x + 0 \\ y = -0.3x - 4 \end{cases}$$

$$0.1x + 0 = -0.3x - 4$$

$$0.4x = -4$$

$$1x = -10$$

$$y = (0.1 \times -10) + 0$$

$$y = (-0.3 \times -10) - 4$$

$$9) \begin{cases} y = -0.6x - 2 \\ y = 0.2x + 2 \end{cases}$$

$$-0.6x - 2 = 0.2x + 2$$

$$-0.8x = 4$$

$$1x = -5$$

$$y = (-0.6 \times -5) - 2$$

$$y = (0.2 \times -5) + 2$$

$$10) \begin{cases} y = -1.75x + 0 \\ y = -2.25x - 2 \end{cases}$$

$$-1.75x + 0 = -2.25x - 2$$

$$0.5x = -2$$

$$1x = -4$$

$$y = (-1.75 \times -4) + 0$$

$$y = (-2.25 \times -4) - 2$$

1. (8, -5)

2. (-5, 2)

3. (-8, 3)

4. (5, 3)

5. (5, -1)

6. (10, -5)

7. (2, -10)

8. (-10, -1)

9. (-5, 1)

10. (-4, 7)