



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

Answers

1)
$$\begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$$

2)
$$\begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$$

4)
$$\begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$$

6)
$$\begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$$

8)
$$\begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$$

9)
$$\begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$$

10)
$$\begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$$



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

Answers

$$1) \begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$$

$$-0.25x + 7 = 2.25x - 3$$

$$-2.5x = -10$$

$$1x = 4$$

$$y = (-0.25 \times 4) + 7$$

$$y = (2.25 \times 4) - 3$$

$$2) \begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$$

$$-7.5x + 6 = -3.5x - 2$$

$$-4x = -8$$

$$1x = 2$$

$$y = (-7.5 \times 2) + 6$$

$$y = (-3.5 \times 2) - 2$$

$$3) \begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$$

$$2.25x - 1 = 3.5x - 6$$

$$-1.25x = -5$$

$$1x = 4$$

$$y = (2.25 \times 4) - 1$$

$$y = (3.5 \times 4) - 6$$

$$4) \begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$$

$$-1.5x - 9 = -0.6x + 0$$

$$-0.9x = 9$$

$$1x = -10$$

$$y = (-1.5 \times -10) - 9$$

$$y = (-0.6 \times -10) + 0$$

$$5) \begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$$

$$0.25x - 3 = -1.25x + 3$$

$$1.5x = 6$$

$$1x = 4$$

$$y = (0.25 \times 4) - 3$$

$$y = (-1.25 \times 4) + 3$$

$$6) \begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$$

$$-0.5x + 9 = 0.75x - 1$$

$$-1.25x = -10$$

$$1x = 8$$

$$y = (-0.5 \times 8) + 9$$

$$y = (0.75 \times 8) - 1$$

$$7) \begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$$

$$-0.4x + 2 = 0.2x + 8$$

$$-0.6x = 6$$

$$1x = -10$$

$$y = (-0.4 \times -10) + 2$$

$$y = (0.2 \times -10) + 8$$

$$8) \begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$$

$$7.5x - 7 = 4.5x - 1$$

$$3x = 6$$

$$1x = 2$$

$$y = (7.5 \times 2) - 7$$

$$y = (4.5 \times 2) - 1$$

$$9) \begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$$

$$-2.75x - 1 = -1.5x + 4$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-2.75 \times -4) - 1$$

$$y = (-1.5 \times -4) + 4$$

$$10) \begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$$

$$-0.5x - 8 = 0.1x - 2$$

$$-0.6x = 6$$

$$1x = -10$$

$$y = (-0.5 \times -10) - 8$$

$$y = (0.1 \times -10) - 2$$

1. (4, 6)

2. (2, -9)

3. (4, 8)

4. (-10, 6)

5. (4, -2)

6. (8, 5)

7. (-10, 6)

8. (2, 8)

9. (-4, 10)

10. (-10, -3)