



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

Answers

1)
$$\begin{cases} y = 0.75x - 4 \\ y = -2.5x + 9 \end{cases}$$

2)
$$\begin{cases} y = 1.7x + 7 \\ y = 0.1x - 9 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 4.5x - 3 \\ y = 1.5x + 3 \end{cases}$$

4)
$$\begin{cases} y = 0.1x + 0 \\ y = 0.2x + 1 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = 0.25x - 7 \\ y = 0.5x - 6 \end{cases}$$

6)
$$\begin{cases} y = 0.9x + 3 \\ y = -0.3x - 9 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = 0.75x + 2 \\ y = 0.5x + 4 \end{cases}$$

8)
$$\begin{cases} y = -2.75x + 7 \\ y = -0.5x - 2 \end{cases}$$

9)
$$\begin{cases} y = 0.25x - 1 \\ y = 2.25x - 9 \end{cases}$$

10)
$$\begin{cases} y = -2.75x - 8 \\ y = -0.25x + 2 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 0.75x - 4 \\ y = -2.5x + 9 \end{cases}$$

$$0.75x - 4 = -2.5x + 9$$

$$3.25x = 13$$

$$1x = 4$$

$$y = (0.75 \times 4) - 4$$

$$y = (-2.5 \times 4) + 9$$

$$2) \begin{cases} y = 1.7x + 7 \\ y = 0.1x - 9 \end{cases}$$

$$1.7x + 7 = 0.1x - 9$$

$$1.6x = -16$$

$$1x = -10$$

$$y = (1.7 \times -10) + 7$$

$$y = (0.1 \times -10) - 9$$

$$3) \begin{cases} y = 4.5x - 3 \\ y = 1.5x + 3 \end{cases}$$

$$4.5x - 3 = 1.5x + 3$$

$$3x = 6$$

$$1x = 2$$

$$y = (4.5 \times 2) - 3$$

$$y = (1.5 \times 2) + 3$$

$$4) \begin{cases} y = 0.1x + 0 \\ y = 0.2x + 1 \end{cases}$$

$$0.1x + 0 = 0.2x + 1$$

$$-0.1x = 1$$

$$1x = -10$$

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

$$y = (0.2 \times -10) + 1$$

$$5) \begin{cases} y = 0.25x - 7 \\ y = 0.5x - 6 \end{cases}$$

$$0.25x - 7 = 0.5x - 6$$

$$-0.25x = 1$$

$$1x = -4$$

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

$$y = (0.5 \times -4) - 6$$

$$6) \begin{cases} y = 0.9x + 3 \\ y = -0.3x - 9 \end{cases}$$

$$0.9x + 3 = -0.3x - 9$$

$$1.2x = -12$$

$$1x = -10$$

$$y = (0.9 \times -10) + 3$$

$$y = (-0.3 \times -10) - 9$$

$$7) \begin{cases} y = 0.75x + 2 \\ y = 0.5x + 4 \end{cases}$$

$$0.75x + 2 = 0.5x + 4$$

$$0.25x = 2$$

$$1x = 8$$

$$y = (0.75 \times 8) + 2$$

$$y = (0.5 \times 8) + 4$$

$$8) \begin{cases} y = -2.75x + 7 \\ y = -0.5x - 2 \end{cases}$$

$$-2.75x + 7 = -0.5x - 2$$

$$-2.25x = -9$$

$$1x = 4$$

$$y = (-2.75 \times 4) + 7$$

$$y = (-0.5 \times 4) - 2$$

$$9) \begin{cases} y = 0.25x - 1 \\ y = 2.25x - 9 \end{cases}$$

$$0.25x - 1 = 2.25x - 9$$

$$-2x = -8$$

$$1x = 4$$

$$y = (0.25 \times 4) - 1$$

$$y = (2.25 \times 4) - 9$$

$$10) \begin{cases} y = -2.75x - 8 \\ y = -0.25x + 2 \end{cases}$$

$$-2.75x - 8 = -0.25x + 2$$

$$-2.5x = 10$$

$$1x = -4$$

$$y = (-2.75 \times -4) - 8$$

$$y = (-0.25 \times -4) + 2$$

1. (4, -1)

2. (-10, -10)

3. (2, 6)

4. (-10, -1)

5. (-4, -8)

6. (-10, -6)

7. (8, 8)

8. (4, -4)

9. (4, 0)

10. (-4, 3)