



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

Answers

1)
$$\begin{cases} y = 1.25x + 2 \\ y = -0.25x + 8 \end{cases}$$

2)
$$\begin{cases} y = 0.2x + 2 \\ y = -0.5x + 9 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3)
$$\begin{cases} y = -0.75x + 9 \\ y = 2.25x - 3 \end{cases}$$

4)
$$\begin{cases} y = 0.9x + 4 \\ y = -0.3x - 8 \end{cases}$$

5)
$$\begin{cases} y = 0.3x - 2 \\ y = -0.3x - 8 \end{cases}$$

6)
$$\begin{cases} y = -0.5x - 8 \\ y = 0.3x + 0 \end{cases}$$

7)
$$\begin{cases} y = 2.5x - 4 \\ y = 4.5x + 0 \end{cases}$$

8)
$$\begin{cases} y = -1.5x - 7 \\ y = 2.5x + 1 \end{cases}$$

9)
$$\begin{cases} y = -3.25x - 8 \\ y = 0.75x + 8 \end{cases}$$

10)
$$\begin{cases} y = 0.3x + 5 \\ y = 0.8x + 0 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 1.25x + 2 \\ y = -0.25x + 8 \end{cases}$$

$$1.25x + 2 = -0.25x + 8$$

$$1.5x = 6$$

$$1x = 4$$

$$y = (1.25 \times 4) + 2$$

$$y = (-0.25 \times 4) + 8$$

$$2) \begin{cases} y = 0.2x + 2 \\ y = -0.5x + 9 \end{cases}$$

$$0.2x + 2 = -0.5x + 9$$

$$0.7x = 7$$

$$1x = 10$$

$$y = (0.2 \times 10) + 2$$

$$y = (-0.5 \times 10) + 9$$

$$3) \begin{cases} y = -0.75x + 9 \\ y = 2.25x - 3 \end{cases}$$

$$-0.75x + 9 = 2.25x - 3$$

$$-3x = -12$$

$$1x = 4$$

$$y = (-0.75 \times 4) + 9$$

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

$$4) \begin{cases} y = 0.9x + 4 \\ y = -0.3x - 8 \end{cases}$$

$$0.9x + 4 = -0.3x - 8$$

$$1.2x = -12$$

$$1x = -10$$

$$y = (0.9 \times -10) + 4$$

$$y = (-0.3 \times -10) - 8$$

$$5) \begin{cases} y = 0.3x - 2 \\ y = -0.3x - 8 \end{cases}$$

$$0.3x - 2 = -0.3x - 8$$

$$0.6x = -6$$

$$1x = -10$$

$$y = (0.3 \times -10) - 2$$

$$y = (-0.3 \times -10) - 8$$

$$6) \begin{cases} y = -0.5x - 8 \\ y = 0.3x + 0 \end{cases}$$

$$-0.5x - 8 = 0.3x + 0$$

$$-0.8x = 8$$

$$1x = -10$$

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

$$y = (0.3 \times -10) + 0$$

$$7) \begin{cases} y = 2.5x - 4 \\ y = 4.5x + 0 \end{cases}$$

$$2.5x - 4 = 4.5x + 0$$

$$-2x = 4$$

$$1x = -2$$

$$y = (2.5 \times -2) - 4$$

$$y = (4.5 \times -2) + 0$$

$$8) \begin{cases} y = -1.5x - 7 \\ y = 2.5x + 1 \end{cases}$$

$$-1.5x - 7 = 2.5x + 1$$

$$-4x = 8$$

$$1x = -2$$

$$y = (-1.5 \times -2) - 7$$

$$y = (2.5 \times -2) + 1$$

$$9) \begin{cases} y = -3.25x - 8 \\ y = 0.75x + 8 \end{cases}$$

$$-3.25x - 8 = 0.75x + 8$$

$$-4x = 16$$

$$1x = -4$$

$$y = (-3.25 \times -4) - 8$$

$$y = (0.75 \times -4) + 8$$

$$10) \begin{cases} y = 0.3x + 5 \\ y = 0.8x + 0 \end{cases}$$

$$0.3x + 5 = 0.8x + 0$$

$$-0.5x = -5$$

$$1x = 10$$

$$y = (0.3 \times 10) + 5$$

$$y = (0.8 \times 10) + 0$$

1. (4, 7)
2. (10, 4)
3. (4, 6)
4. (-10, -5)
5. (-10, -5)
6. (-10, -3)
7. (-2, -9)
8. (-2, -4)
9. (-4, 5)
10. (10, 8)