



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

Answers

1)
$$\begin{cases} y = 0.9x + 1 \\ y = 1.7x - 7 \end{cases}$$

2)
$$\begin{cases} y = -0.6x + 1 \\ y = -1.2x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 0.7x + 0 \\ y = 0.3x - 4 \end{cases}$$

4)
$$\begin{cases} y = -0.4x + 7 \\ y = -0.6x + 9 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = -1.25x + 4 \\ y = -4.5x - 9 \end{cases}$$

6)
$$\begin{cases} y = 5.5x - 5 \\ y = -0.5x + 7 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = 1.75x - 5 \\ y = 0.5x + 5 \end{cases}$$

8)
$$\begin{cases} y = -1.2x + 2 \\ y = -1.3x + 3 \end{cases}$$

9)
$$\begin{cases} y = -0.25x - 2 \\ y = 1.5x - 9 \end{cases}$$

10)
$$\begin{cases} y = -0.2x + 3 \\ y = -1.2x + 8 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 0.9x + 1 \\ y = 1.7x - 7 \end{cases}$$

$$0.9x + 1 = 1.7x - 7$$

$$-0.8x = -8$$

$$1x = 10$$

$$y = (0.9 \times 10) + 1$$

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

$$2) \begin{cases} y = -0.6x + 1 \\ y = -1.2x - 2 \end{cases}$$

$$-0.6x + 1 = -1.2x - 2$$

$$0.6x = -3$$

$$1x = -5$$

$$y = (-0.6 \times -5) + 1$$

$$y = (-1.2 \times -5) - 2$$

$$3) \begin{cases} y = 0.7x + 0 \\ y = 0.3x - 4 \end{cases}$$

$$0.7x + 0 = 0.3x - 4$$

$$0.4x = -4$$

$$1x = -10$$

$$y = (0.7 \times -10) + 0$$

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

$$4) \begin{cases} y = -0.4x + 7 \\ y = -0.6x + 9 \end{cases}$$

$$-0.4x + 7 = -0.6x + 9$$

$$0.2x = 2$$

$$1x = 10$$

$$y = (-0.4 \times 10) + 7$$

$$y = (-0.6 \times 10) + 9$$

$$5) \begin{cases} y = -1.25x + 4 \\ y = -4.5x - 9 \end{cases}$$

$$-1.25x + 4 = -4.5x - 9$$

$$3.25x = -13$$

$$1x = -4$$

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

$$y = (-4.5 \times -4) - 9$$

$$6) \begin{cases} y = 5.5x - 5 \\ y = -0.5x + 7 \end{cases}$$

$$5.5x - 5 = -0.5x + 7$$

$$6x = 12$$

$$1x = 2$$

$$y = (5.5 \times 2) - 5$$

$$y = (-0.5 \times 2) + 7$$

$$7) \begin{cases} y = 1.75x - 5 \\ y = 0.5x + 5 \end{cases}$$

$$1.75x - 5 = 0.5x + 5$$

$$1.25x = 10$$

$$1x = 8$$

$$y = (1.75 \times 8) - 5$$

$$y = (0.5 \times 8) + 5$$

$$8) \begin{cases} y = -1.2x + 2 \\ y = -1.3x + 3 \end{cases}$$

$$-1.2x + 2 = -1.3x + 3$$

$$0.1x = 1$$

$$1x = 10$$

$$y = (-1.2 \times 10) + 2$$

$$y = (-1.3 \times 10) + 3$$

$$9) \begin{cases} y = -0.25x - 2 \\ y = 1.5x - 9 \end{cases}$$

$$-0.25x - 2 = 1.5x - 9$$

$$-1.75x = -7$$

$$1x = 4$$

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

$$y = (1.5 \times 4) - 9$$

$$10) \begin{cases} y = -0.2x + 3 \\ y = -1.2x + 8 \end{cases}$$

$$-0.2x + 3 = -1.2x + 8$$

$$1x = 5$$

$$1x = 5$$

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

$$y = (-1.2 \times 5) + 8$$

1. (10, 10)

2. (-5, 4)

3. (-10, -7)

4. (10, 3)

5. (-4, 9)

6. (2, 6)

7. (8, 9)

8. (10, -10)

9. (4, -3)

10. (5, 2)