



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

Answers

1)
$$\begin{cases} y = 0.5x + 6 \\ y = 1.5x - 2 \end{cases}$$

2)
$$\begin{cases} y = -1.2x - 6 \\ y = -0.4x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 0.4x - 1 \\ y = 0.8x + 3 \end{cases}$$

4)
$$\begin{cases} y = 0.7x - 6 \\ y = 0.2x - 1 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = 2.5x - 3 \\ y = 3.75x - 8 \end{cases}$$

6)
$$\begin{cases} y = -1.25x - 3 \\ y = -1.75x - 1 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = -0.5x + 0 \\ y = -4.5x - 8 \end{cases}$$

8)
$$\begin{cases} y = -0.6x + 9 \\ y = 0.6x - 3 \end{cases}$$

9)
$$\begin{cases} y = -4.25x - 8 \\ y = -1.25x + 4 \end{cases}$$

10)
$$\begin{cases} y = -0.75x - 2 \\ y = 1.5x + 7 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 0.5x + 6 \\ y = 1.5x - 2 \end{cases}$$

$$0.5x + 6 = 1.5x - 2$$

$$-1x = -8$$

$$1x = 8$$

$$y = (0.5 \times 8) + 6$$

$$y = (1.5 \times 8) - 2$$

$$2) \begin{cases} y = -1.2x - 6 \\ y = -0.4x - 2 \end{cases}$$

$$-1.2x - 6 = -0.4x - 2$$

$$-0.8x = 4$$

$$1x = -5$$

$$y = (-1.2 \times -5) - 6$$

$$y = (-0.4 \times -5) - 2$$

$$3) \begin{cases} y = 0.4x - 1 \\ y = 0.8x + 3 \end{cases}$$

$$0.4x - 1 = 0.8x + 3$$

$$-0.4x = 4$$

$$1x = -10$$

$$y = (0.4 \times -10) - 1$$

$$y = (0.8 \times -10) + 3$$

$$4) \begin{cases} y = 0.7x - 6 \\ y = 0.2x - 1 \end{cases}$$

$$0.7x - 6 = 0.2x - 1$$

$$0.5x = 5$$

$$1x = 10$$

$$y = (0.7 \times 10) - 6$$

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

$$5) \begin{cases} y = 2.5x - 3 \\ y = 3.75x - 8 \end{cases}$$

$$2.5x - 3 = 3.75x - 8$$

$$-1.25x = -5$$

$$1x = 4$$

$$y = (2.5 \times 4) - 3$$

$$y = (3.75 \times 4) - 8$$

$$6) \begin{cases} y = -1.25x - 3 \\ y = -1.75x - 1 \end{cases}$$

$$-1.25x - 3 = -1.75x - 1$$

$$0.5x = 2$$

$$1x = 4$$

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

$$y = (-1.75 \times 4) - 1$$

$$7) \begin{cases} y = -0.5x + 0 \\ y = -4.5x - 8 \end{cases}$$

$$-0.5x + 0 = -4.5x - 8$$

$$4x = -8$$

$$1x = -2$$

$$y = (-0.5 \times -2) + 0$$

$$y = (-4.5 \times -2) - 8$$

$$8) \begin{cases} y = -0.6x + 9 \\ y = 0.6x - 3 \end{cases}$$

$$-0.6x + 9 = 0.6x - 3$$

$$-1.2x = -12$$

$$1x = 10$$

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

$$y = (0.6 \times 10) - 3$$

$$9) \begin{cases} y = -4.25x - 8 \\ y = -1.25x + 4 \end{cases}$$

$$-4.25x - 8 = -1.25x + 4$$

$$-3x = 12$$

$$1x = -4$$

$$y = (-4.25 \times -4) - 8$$

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

$$10) \begin{cases} y = -0.75x - 2 \\ y = 1.5x + 7 \end{cases}$$

$$-0.75x - 2 = 1.5x + 7$$

$$-2.25x = 9$$

$$1x = -4$$

$$y = (-0.75 \times -4) - 2$$

$$y = (1.5 \times -4) + 7$$

1. (8, 10)2. (-5, 0)3. (-10, -5)4. (10, 1)5. (4, 7)6. (4, -8)7. (-2, 1)8. (10, 3)9. (-4, 9)10. (-4, 1)