



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

Answers

1)
$$\begin{cases} y = -1.2x - 6 \\ y = -0.5x + 1 \end{cases}$$

2)
$$\begin{cases} y = 0.4x + 0 \\ y = -0.4x + 8 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = -0.25x - 5 \\ y = -1.5x + 0 \end{cases}$$

4)
$$\begin{cases} y = 8.5x - 7 \\ y = 6.5x - 3 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = -5.5x - 7 \\ y = 2.5x + 9 \end{cases}$$

6)
$$\begin{cases} y = 1.5x - 6 \\ y = 6.5x + 4 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = -0.6x - 8 \\ y = -0.2x - 6 \end{cases}$$

8)
$$\begin{cases} y = -1.5x + 4 \\ y = -3.75x - 5 \end{cases}$$

9)
$$\begin{cases} y = -1.75x - 6 \\ y = -1.5x - 5 \end{cases}$$

10)
$$\begin{cases} y = -1.5x + 4 \\ y = 0.75x - 5 \end{cases}$$



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

Answers

$$1) \begin{cases} y = -1.2x - 6 \\ y = -0.5x + 1 \end{cases}$$

$$-1.2x - 6 = -0.5x + 1$$

$$-0.7x = 7$$

$$1x = -10$$

$$y = (-1.2 \times -10) - 6$$

$$y = (-0.5 \times -10) + 1$$

$$2) \begin{cases} y = 0.4x + 0 \\ y = -0.4x + 8 \end{cases}$$

$$0.4x + 0 = -0.4x + 8$$

$$0.8x = 8$$

$$1x = 10$$

$$y = (0.4 \times 10) + 0$$

$$y = (-0.4 \times 10) + 8$$

$$3) \begin{cases} y = -0.25x - 5 \\ y = -1.5x + 0 \end{cases}$$

$$-0.25x - 5 = -1.5x + 0$$

$$1.25x = 5$$

$$1x = 4$$

$$y = (-0.25 \times 4) - 5$$

$$y = (-1.5 \times 4) + 0$$

$$4) \begin{cases} y = 8.5x - 7 \\ y = 6.5x - 3 \end{cases}$$

$$8.5x - 7 = 6.5x - 3$$

$$2x = 4$$

$$1x = 2$$

$$y = (8.5 \times 2) - 7$$

$$y = (6.5 \times 2) - 3$$

$$5) \begin{cases} y = -5.5x - 7 \\ y = 2.5x + 9 \end{cases}$$

$$-5.5x - 7 = 2.5x + 9$$

$$-8x = 16$$

$$1x = -2$$

$$y = (-5.5 \times -2) - 7$$

$$y = (2.5 \times -2) + 9$$

$$6) \begin{cases} y = 1.5x - 6 \\ y = 6.5x + 4 \end{cases}$$

$$1.5x - 6 = 6.5x + 4$$

$$-5x = 10$$

$$1x = -2$$

$$y = (1.5 \times -2) - 6$$

$$y = (6.5 \times -2) + 4$$

$$7) \begin{cases} y = -0.6x - 8 \\ y = -0.2x - 6 \end{cases}$$

$$-0.6x - 8 = -0.2x - 6$$

$$-0.4x = 2$$

$$1x = -5$$

$$y = (-0.6 \times -5) - 8$$

$$y = (-0.2 \times -5) - 6$$

$$8) \begin{cases} y = -1.5x + 4 \\ y = -3.75x - 5 \end{cases}$$

$$-1.5x + 4 = -3.75x - 5$$

$$2.25x = -9$$

$$1x = -4$$

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

$$y = (-3.75 \times -4) - 5$$

$$9) \begin{cases} y = -1.75x - 6 \\ y = -1.5x - 5 \end{cases}$$

$$-1.75x - 6 = -1.5x - 5$$

$$-0.25x = 1$$

$$1x = -4$$

$$y = (-1.75 \times -4) - 6$$

$$y = (-1.5 \times -4) - 5$$

$$10) \begin{cases} y = -1.5x + 4 \\ y = 0.75x - 5 \end{cases}$$

$$-1.5x + 4 = 0.75x - 5$$

$$-2.25x = -9$$

$$1x = 4$$

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

$$y = (0.75 \times 4) - 5$$

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