



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

Answers

1)
$$\begin{cases} y = 1.25x - 8 \\ y = 0.25x + 0 \end{cases}$$

2)
$$\begin{cases} y = 0.8x + 5 \\ y = 0.2x - 1 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = -2.25x - 3 \\ y = -2.5x - 4 \end{cases}$$

4)
$$\begin{cases} y = 5.5x - 1 \\ y = 8.5x - 7 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = -3.75x - 5 \\ y = -1.25x + 5 \end{cases}$$

6)
$$\begin{cases} y = -0.6x + 3 \\ y = 0.2x - 1 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = 0.7x - 5 \\ y = 0.9x - 7 \end{cases}$$

8)
$$\begin{cases} y = -2.25x + 1 \\ y = -4.25x - 7 \end{cases}$$

9)
$$\begin{cases} y = 0.75x + 1 \\ y = 1.75x + 9 \end{cases}$$

10)
$$\begin{cases} y = -1.75x + 8 \\ y = -1.25x + 4 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 1.25x - 8 \\ y = 0.25x + 0 \end{cases}$$

$$1.25x - 8 = 0.25x + 0$$

$$1x = 8$$

$$1x = 8$$

$$y = (1.25 \times 8) - 8$$

$$y = (0.25 \times 8) + 0$$

$$2) \begin{cases} y = 0.8x + 5 \\ y = 0.2x - 1 \end{cases}$$

$$0.8x + 5 = 0.2x - 1$$

$$0.6x = -6$$

$$1x = -10$$

$$y = (0.8 \times -10) + 5$$

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

$$3) \begin{cases} y = -2.25x - 3 \\ y = -2.5x - 4 \end{cases}$$

$$-2.25x - 3 = -2.5x - 4$$

$$0.25x = -1$$

$$1x = -4$$

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

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

$$4) \begin{cases} y = 5.5x - 1 \\ y = 8.5x - 7 \end{cases}$$

$$5.5x - 1 = 8.5x - 7$$

$$-3x = -6$$

$$1x = 2$$

$$y = (5.5 \times 2) - 1$$

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

$$5) \begin{cases} y = -3.75x - 5 \\ y = -1.25x + 5 \end{cases}$$

$$-3.75x - 5 = -1.25x + 5$$

$$-2.5x = 10$$

$$1x = -4$$

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

$$y = (-1.25 \times -4) + 5$$

$$6) \begin{cases} y = -0.6x + 3 \\ y = 0.2x - 1 \end{cases}$$

$$-0.6x + 3 = 0.2x - 1$$

$$-0.8x = -4$$

$$1x = 5$$

$$y = (-0.6 \times 5) + 3$$

$$y = (0.2 \times 5) - 1$$

$$7) \begin{cases} y = 0.7x - 5 \\ y = 0.9x - 7 \end{cases}$$

$$0.7x - 5 = 0.9x - 7$$

$$-0.2x = -2$$

$$1x = 10$$

$$y = (0.7 \times 10) - 5$$

$$y = (0.9 \times 10) - 7$$

$$8) \begin{cases} y = -2.25x + 1 \\ y = -4.25x - 7 \end{cases}$$

$$-2.25x + 1 = -4.25x - 7$$

$$2x = -8$$

$$1x = -4$$

$$y = (-2.25 \times -4) + 1$$

$$y = (-4.25 \times -4) - 7$$

$$9) \begin{cases} y = 0.75x + 1 \\ y = 1.75x + 9 \end{cases}$$

$$0.75x + 1 = 1.75x + 9$$

$$-1x = 8$$

$$1x = -8$$

$$y = (0.75 \times -8) + 1$$

$$y = (1.75 \times -8) + 9$$

$$10) \begin{cases} y = -1.75x + 8 \\ y = -1.25x + 4 \end{cases}$$

$$-1.75x + 8 = -1.25x + 4$$

$$-0.5x = -4$$

$$1x = 8$$

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

$$y = (-1.25 \times 8) + 4$$

1. (8, 2)

2. (-10, -3)

3. (-4, 6)

4. (2, 10)

5. (-4, 10)

6. (5, 0)

7. (10, 2)

8. (-4, 10)

9. (-8, -5)

10. (8, -6)