



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

1)
$$\begin{cases} y = 2.5x - 4 \\ y = 2.25x - 3 \end{cases}$$

2)
$$\begin{cases} y = 0.2x + 7 \\ y = 0.8x + 1 \end{cases}$$

3)
$$\begin{cases} y = -0.5x + 8 \\ y = -2.25x + 1 \end{cases}$$

4)
$$\begin{cases} y = -1.25x - 4 \\ y = 0.5x + 3 \end{cases}$$

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

6)
$$\begin{cases} y = 0.25x - 9 \\ y = 3.25x + 3 \end{cases}$$

7)
$$\begin{cases} y = 1.8x - 9 \\ y = 0.4x - 2 \end{cases}$$

8)
$$\begin{cases} y = -1.5x - 3 \\ y = -0.25x + 2 \end{cases}$$

9)
$$\begin{cases} y = 0.4x + 3 \\ y = 0.2x + 4 \end{cases}$$

10)
$$\begin{cases} y = -0.4x + 6 \\ y = 0.8x + 0 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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

Answers

$$1) \begin{cases} y = 2.5x - 4 \\ y = 2.25x - 3 \end{cases}$$

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

$$0.25x = 1$$

$$1x = 4$$

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

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

$$2) \begin{cases} y = 0.2x + 7 \\ y = 0.8x + 1 \end{cases}$$

$$0.2x + 7 = 0.8x + 1$$

$$-0.6x = -6$$

$$1x = 10$$

$$y = (0.2 \times 10) + 7$$

$$y = (0.8 \times 10) + 1$$

$$3) \begin{cases} y = -0.5x + 8 \\ y = -2.25x + 1 \end{cases}$$

$$-0.5x + 8 = -2.25x + 1$$

$$1.75x = -7$$

$$1x = -4$$

$$y = (-0.5 \times -4) + 8$$

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

$$4) \begin{cases} y = -1.25x - 4 \\ y = 0.5x + 3 \end{cases}$$

$$-1.25x + -4 = 0.5x + 3$$

$$-1.75x = 7$$

$$1x = -4$$

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

$$y = (0.5 \times -4) + 3$$

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

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

$$-0.6x = 6$$

$$1x = -10$$

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

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

$$6) \begin{cases} y = 0.25x - 9 \\ y = 3.25x + 3 \end{cases}$$

$$0.25x + -9 = 3.25x + 3$$

$$-3x = 12$$

$$1x = -4$$

$$y = (0.25 \times -4) + -9$$

$$y = (3.25 \times -4) + 3$$

$$7) \begin{cases} y = 1.8x - 9 \\ y = 0.4x - 2 \end{cases}$$

$$1.8x + -9 = 0.4x + -2$$

$$1.4x = 7$$

$$1x = 5$$

$$y = (1.8 \times 5) + -9$$

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

$$8) \begin{cases} y = -1.5x - 3 \\ y = -0.25x + 2 \end{cases}$$

$$-1.5x + -3 = -0.25x + 2$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-1.5 \times -4) + -3$$

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

$$9) \begin{cases} y = 0.4x + 3 \\ y = 0.2x + 4 \end{cases}$$

$$0.4x + 3 = 0.2x + 4$$

$$0.2x = 1$$

$$1x = 5$$

$$y = (0.4 \times 5) + 3$$

$$y = (0.2 \times 5) + 4$$

$$10) \begin{cases} y = -0.4x + 6 \\ y = 0.8x + 0 \end{cases}$$

$$-0.4x + 6 = 0.8x + 0$$

$$-1.2x = -6$$

$$1x = 5$$

$$y = (-0.4 \times 5) + 6$$

$$y = (0.8 \times 5) + 0$$

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