



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

Answers

1) 
$$\begin{cases} y = -6.5x + 9 \\ y = 1.5x - 7 \end{cases}$$

2) 
$$\begin{cases} y = -2.5x + 9 \\ y = -0.5x + 5 \end{cases}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

3) 
$$\begin{cases} y = -0.3x - 3 \\ y = -0.5x - 1 \end{cases}$$

4) 
$$\begin{cases} y = 0.5x + 4 \\ y = -0.5x + 0 \end{cases}$$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

5) 
$$\begin{cases} y = -0.5x - 1 \\ y = -1.5x + 5 \end{cases}$$

6) 
$$\begin{cases} y = 1.5x + 4 \\ y = 0.5x + 6 \end{cases}$$

9. \_\_\_\_\_

10. \_\_\_\_\_

7) 
$$\begin{cases} y = -0.1x - 7 \\ y = -0.3x - 5 \end{cases}$$

8) 
$$\begin{cases} y = -3.5x + 7 \\ y = -3.25x + 6 \end{cases}$$

9) 
$$\begin{cases} y = -2.5x + 0 \\ y = -4.25x - 7 \end{cases}$$

10) 
$$\begin{cases} y = 0.6x + 2 \\ y = -0.6x - 4 \end{cases}$$



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

Answers

$$1) \begin{cases} y = -6.5x + 9 \\ y = 1.5x - 7 \end{cases}$$

$$-6.5x + 9 = 1.5x - 7$$

$$-8x = -16$$

$$1x = 2$$

$$y = (-6.5 \times 2) + 9$$

$$y = (1.5 \times 2) - 7$$

$$2) \begin{cases} y = -2.5x + 9 \\ y = -0.5x + 5 \end{cases}$$

$$-2.5x + 9 = -0.5x + 5$$

$$-2x = -4$$

$$1x = 2$$

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

$$y = (-0.5 \times 2) + 5$$

$$3) \begin{cases} y = -0.3x - 3 \\ y = -0.5x - 1 \end{cases}$$

$$-0.3x - 3 = -0.5x - 1$$

$$0.2x = 2$$

$$1x = 10$$

$$y = (-0.3 \times 10) - 3$$

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

$$4) \begin{cases} y = 0.5x + 4 \\ y = -0.5x + 0 \end{cases}$$

$$0.5x + 4 = -0.5x + 0$$

$$1x = -4$$

$$1x = -4$$

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

$$y = (-0.5 \times -4) + 0$$

$$5) \begin{cases} y = -0.5x - 1 \\ y = -1.5x + 5 \end{cases}$$

$$-0.5x - 1 = -1.5x + 5$$

$$1x = 6$$

$$1x = 6$$

$$y = (-0.5 \times 6) - 1$$

$$y = (-1.5 \times 6) + 5$$

$$6) \begin{cases} y = 1.5x + 4 \\ y = 0.5x + 6 \end{cases}$$

$$1.5x + 4 = 0.5x + 6$$

$$1x = 2$$

$$1x = 2$$

$$y = (1.5 \times 2) + 4$$

$$y = (0.5 \times 2) + 6$$

$$7) \begin{cases} y = -0.1x - 7 \\ y = -0.3x - 5 \end{cases}$$

$$-0.1x - 7 = -0.3x - 5$$

$$0.2x = 2$$

$$1x = 10$$

$$y = (-0.1 \times 10) - 7$$

$$y = (-0.3 \times 10) - 5$$

$$8) \begin{cases} y = -3.5x + 7 \\ y = -3.25x + 6 \end{cases}$$

$$-3.5x + 7 = -3.25x + 6$$

$$-0.25x = -1$$

$$1x = 4$$

$$y = (-3.5 \times 4) + 7$$

$$y = (-3.25 \times 4) + 6$$

$$9) \begin{cases} y = -2.5x + 0 \\ y = -4.25x - 7 \end{cases}$$

$$-2.5x + 0 = -4.25x - 7$$

$$1.75x = -7$$

$$1x = -4$$

$$y = (-2.5 \times -4) + 0$$

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

$$10) \begin{cases} y = 0.6x + 2 \\ y = -0.6x - 4 \end{cases}$$

$$0.6x + 2 = -0.6x - 4$$

$$1.2x = -6$$

$$1x = -5$$

$$y = (0.6 \times -5) + 2$$

$$y = (-0.6 \times -5) - 4$$

1. (2, -4)

2. (2, 4)

3. (10, -6)

4. (-4, 2)

5. (6, -4)

6. (2, 7)

7. (10, -8)

8. (4, -7)

9. (-4, 10)

10. (-5, -1)