



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

Answers

1) 
$$\begin{cases} y = -0.1x - 3 \\ y = 0.6x + 4 \end{cases}$$

2) 
$$\begin{cases} y = -0.1x - 9 \\ y = 0.1x - 7 \end{cases}$$

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

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

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

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

3) 
$$\begin{cases} y = -4.25x + 9 \\ y = -0.75x - 5 \end{cases}$$

4) 
$$\begin{cases} y = -1.5x + 8 \\ y = -0.25x - 2 \end{cases}$$

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

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

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

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

5) 
$$\begin{cases} y = -2.5x - 8 \\ y = -1.5x - 6 \end{cases}$$

6) 
$$\begin{cases} y = -2.25x - 5 \\ y = -2.5x - 6 \end{cases}$$

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

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

7) 
$$\begin{cases} y = -2.25x - 5 \\ y = -2.75x - 7 \end{cases}$$

8) 
$$\begin{cases} y = -2.5x - 5 \\ y = -9.5x + 9 \end{cases}$$

9) 
$$\begin{cases} y = 0.7x - 2 \\ y = -0.4x + 9 \end{cases}$$

10) 
$$\begin{cases} y = -0.1x + 4 \\ y = 0.8x - 5 \end{cases}$$



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

Answers

$$1) \begin{cases} y = -0.1x - 3 \\ y = 0.6x + 4 \end{cases}$$

$$-0.1x - 3 = 0.6x + 4$$

$$-0.7x = 7$$

$$1x = -10$$

$$y = (-0.1 \times -10) - 3$$

$$y = (0.6 \times -10) + 4$$

$$2) \begin{cases} y = -0.1x - 9 \\ y = 0.1x - 7 \end{cases}$$

$$-0.1x - 9 = 0.1x - 7$$

$$-0.2x = 2$$

$$1x = -10$$

$$y = (-0.1 \times -10) - 9$$

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

$$3) \begin{cases} y = -4.25x + 9 \\ y = -0.75x - 5 \end{cases}$$

$$-4.25x + 9 = -0.75x - 5$$

$$-3.5x = -14$$

$$1x = 4$$

$$y = (-4.25 \times 4) + 9$$

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

$$4) \begin{cases} y = -1.5x + 8 \\ y = -0.25x - 2 \end{cases}$$

$$-1.5x + 8 = -0.25x - 2$$

$$-1.25x = -10$$

$$1x = 8$$

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

$$y = (-0.25 \times 8) - 2$$

$$5) \begin{cases} y = -2.5x - 8 \\ y = -1.5x - 6 \end{cases}$$

$$-2.5x - 8 = -1.5x - 6$$

$$-1x = 2$$

$$1x = -2$$

$$y = (-2.5 \times -2) - 8$$

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

$$6) \begin{cases} y = -2.25x - 5 \\ y = -2.5x - 6 \end{cases}$$

$$-2.25x - 5 = -2.5x - 6$$

$$0.25x = -1$$

$$1x = -4$$

$$y = (-2.25 \times -4) - 5$$

$$y = (-2.5 \times -4) - 6$$

$$7) \begin{cases} y = -2.25x - 5 \\ y = -2.75x - 7 \end{cases}$$

$$-2.25x - 5 = -2.75x - 7$$

$$0.5x = -2$$

$$1x = -4$$

$$y = (-2.25 \times -4) - 5$$

$$y = (-2.75 \times -4) - 7$$

$$8) \begin{cases} y = -2.5x - 5 \\ y = -9.5x + 9 \end{cases}$$

$$-2.5x - 5 = -9.5x + 9$$

$$7x = 14$$

$$1x = 2$$

$$y = (-2.5 \times 2) - 5$$

$$y = (-9.5 \times 2) + 9$$

$$9) \begin{cases} y = 0.7x - 2 \\ y = -0.4x + 9 \end{cases}$$

$$0.7x - 2 = -0.4x + 9$$

$$1.1x = 11$$

$$1x = 10$$

$$y = (0.7 \times 10) - 2$$

$$y = (-0.4 \times 10) + 9$$

$$10) \begin{cases} y = -0.1x + 4 \\ y = 0.8x - 5 \end{cases}$$

$$-0.1x + 4 = 0.8x - 5$$

$$-0.9x = -9$$

$$1x = 10$$

$$y = (-0.1 \times 10) + 4$$

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

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