



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

Answers

1) 
$$\begin{cases} y = 0.25x - 8 \\ y = 1.75x - 2 \end{cases}$$

2) 
$$\begin{cases} y = -1.5x + 7 \\ y = 0.25x - 7 \end{cases}$$

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

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

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

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

3) 
$$\begin{cases} y = -0.75x + 4 \\ y = 0.25x - 4 \end{cases}$$

4) 
$$\begin{cases} y = 0.75x + 9 \\ y = -2.5x - 4 \end{cases}$$

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

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

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

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

5) 
$$\begin{cases} y = 0.75x + 2 \\ y = -0.25x + 6 \end{cases}$$

6) 
$$\begin{cases} y = 0.3x + 4 \\ y = 0.1x + 2 \end{cases}$$

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

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

7) 
$$\begin{cases} y = -2.5x + 3 \\ y = -8.5x - 9 \end{cases}$$

8) 
$$\begin{cases} y = -0.1x - 8 \\ y = -0.5x - 4 \end{cases}$$

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

10) 
$$\begin{cases} y = -0.4x - 3 \\ y = -0.2x - 4 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 0.25x - 8 \\ y = 1.75x - 2 \end{cases}$$

$$0.25x - 8 = 1.75x - 2$$

$$-1.5x = 6$$

$$1x = -4$$

$$y = (0.25 \times -4) - 8$$

$$y = (1.75 \times -4) - 2$$

$$2) \begin{cases} y = -1.5x + 7 \\ y = 0.25x - 7 \end{cases}$$

$$-1.5x + 7 = 0.25x - 7$$

$$-1.75x = -14$$

$$1x = 8$$

$$y = (-1.5 \times 8) + 7$$

$$y = (0.25 \times 8) - 7$$

$$3) \begin{cases} y = -0.75x + 4 \\ y = 0.25x - 4 \end{cases}$$

$$-0.75x + 4 = 0.25x - 4$$

$$-1x = -8$$

$$1x = 8$$

$$y = (-0.75 \times 8) + 4$$

$$y = (0.25 \times 8) - 4$$

$$4) \begin{cases} y = 0.75x + 9 \\ y = -2.5x - 4 \end{cases}$$

$$0.75x + 9 = -2.5x - 4$$

$$3.25x = -13$$

$$1x = -4$$

$$y = (0.75 \times -4) + 9$$

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

$$5) \begin{cases} y = 0.75x + 2 \\ y = -0.25x + 6 \end{cases}$$

$$0.75x + 2 = -0.25x + 6$$

$$1x = 4$$

$$1x = 4$$

$$y = (0.75 \times 4) + 2$$

$$y = (-0.25 \times 4) + 6$$

$$6) \begin{cases} y = 0.3x + 4 \\ y = 0.1x + 2 \end{cases}$$

$$0.3x + 4 = 0.1x + 2$$

$$0.2x = -2$$

$$1x = -10$$

$$y = (0.3 \times -10) + 4$$

$$y = (0.1 \times -10) + 2$$

$$7) \begin{cases} y = -2.5x + 3 \\ y = -8.5x - 9 \end{cases}$$

$$-2.5x + 3 = -8.5x - 9$$

$$6x = -12$$

$$1x = -2$$

$$y = (-2.5 \times -2) + 3$$

$$y = (-8.5 \times -2) - 9$$

$$8) \begin{cases} y = -0.1x - 8 \\ y = -0.5x - 4 \end{cases}$$

$$-0.1x - 8 = -0.5x - 4$$

$$0.4x = 4$$

$$1x = 10$$

$$y = (-0.1 \times 10) - 8$$

$$y = (-0.5 \times 10) - 4$$

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

$$0.4x + 3 = -0.2x - 3$$

$$0.6x = -6$$

$$1x = -10$$

$$y = (0.4 \times -10) + 3$$

$$y = (-0.2 \times -10) - 3$$

$$10) \begin{cases} y = -0.4x - 3 \\ y = -0.2x - 4 \end{cases}$$

$$-0.4x - 3 = -0.2x - 4$$

$$-0.2x = -1$$

$$1x = 5$$

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

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

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