



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

Answers

1) 
$$\begin{cases} y = 0.25x - 1 \\ y = 0.75x - 3 \end{cases}$$

2) 
$$\begin{cases} y = -0.25x - 8 \\ y = -1.25x - 4 \end{cases}$$

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

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

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

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

3) 
$$\begin{cases} y = 2.75x + 6 \\ y = 1.75x + 2 \end{cases}$$

4) 
$$\begin{cases} y = 1.5x + 1 \\ y = 2.5x - 5 \end{cases}$$

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

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

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

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

5) 
$$\begin{cases} y = -0.75x + 2 \\ y = -1.75x - 2 \end{cases}$$

6) 
$$\begin{cases} y = 0.4x - 2 \\ y = 0.6x - 1 \end{cases}$$

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

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

7) 
$$\begin{cases} y = -0.75x + 5 \\ y = -2.75x - 3 \end{cases}$$

8) 
$$\begin{cases} y = -1.5x - 9 \\ y = 0.25x + 5 \end{cases}$$

9) 
$$\begin{cases} y = 2.75x + 1 \\ y = 2.5x + 0 \end{cases}$$

10) 
$$\begin{cases} y = -0.5x + 4 \\ y = -3.75x - 9 \end{cases}$$



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

Answers

$$1) \begin{cases} y = 0.25x - 1 \\ y = 0.75x - 3 \end{cases}$$

$$0.25x - 1 = 0.75x - 3$$

$$-0.5x = -2$$

$$1x = 4$$

$$y = (0.25 \times 4) - 1$$

$$y = (0.75 \times 4) - 3$$

$$2) \begin{cases} y = -0.25x - 8 \\ y = -1.25x - 4 \end{cases}$$

$$-0.25x - 8 = -1.25x - 4$$

$$1x = 4$$

$$1x = 4$$

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

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

$$3) \begin{cases} y = 2.75x + 6 \\ y = 1.75x + 2 \end{cases}$$

$$2.75x + 6 = 1.75x + 2$$

$$1x = -4$$

$$1x = -4$$

$$y = (2.75 \times -4) + 6$$

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

$$4) \begin{cases} y = 1.5x + 1 \\ y = 2.5x - 5 \end{cases}$$

$$1.5x + 1 = 2.5x - 5$$

$$-1x = -6$$

$$1x = 6$$

$$y = (1.5 \times 6) + 1$$

$$y = (2.5 \times 6) - 5$$

$$5) \begin{cases} y = -0.75x + 2 \\ y = -1.75x - 2 \end{cases}$$

$$-0.75x + 2 = -1.75x - 2$$

$$1x = -4$$

$$1x = -4$$

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

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

$$6) \begin{cases} y = 0.4x - 2 \\ y = 0.6x - 1 \end{cases}$$

$$0.4x - 2 = 0.6x - 1$$

$$-0.2x = 1$$

$$1x = -5$$

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

$$y = (0.6 \times -5) - 1$$

$$7) \begin{cases} y = -0.75x + 5 \\ y = -2.75x - 3 \end{cases}$$

$$-0.75x + 5 = -2.75x - 3$$

$$2x = -8$$

$$1x = -4$$

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

$$y = (-2.75 \times -4) - 3$$

$$8) \begin{cases} y = -1.5x - 9 \\ y = 0.25x + 5 \end{cases}$$

$$-1.5x - 9 = 0.25x + 5$$

$$-1.75x = 14$$

$$1x = -8$$

$$y = (-1.5 \times -8) - 9$$

$$y = (0.25 \times -8) + 5$$

$$9) \begin{cases} y = 2.75x + 1 \\ y = 2.5x + 0 \end{cases}$$

$$2.75x + 1 = 2.5x + 0$$

$$0.25x = -1$$

$$1x = -4$$

$$y = (2.75 \times -4) + 1$$

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

$$10) \begin{cases} y = -0.5x + 4 \\ y = -3.75x - 9 \end{cases}$$

$$-0.5x + 4 = -3.75x - 9$$

$$3.25x = -13$$

$$1x = -4$$

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

$$y = (-3.75 \times -4) - 9$$

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