



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

1)
$$\begin{cases} y = 4.25x - 8 \\ y = 3.5x - 5 \end{cases}$$

2)
$$\begin{cases} y = -2.5x + 2 \\ y = -5.5x - 4 \end{cases}$$

3)
$$\begin{cases} y = 0.75x + 8 \\ y = -3.5x - 9 \end{cases}$$

4)
$$\begin{cases} y = -0.6x - 5 \\ y = 0.2x - 1 \end{cases}$$

5)
$$\begin{cases} y = 1.75x - 5 \\ y = 0.5x + 0 \end{cases}$$

6)
$$\begin{cases} y = -1.75x + 3 \\ y = 0.75x - 7 \end{cases}$$

7)
$$\begin{cases} y = 0.6x - 4 \\ y = 0.4x - 5 \end{cases}$$

8)
$$\begin{cases} y = 0.75x + 8 \\ y = -0.75x + 2 \end{cases}$$

9)
$$\begin{cases} y = -4.25x - 8 \\ y = -2.75x - 2 \end{cases}$$

10)
$$\begin{cases} y = 0.6x - 5 \\ y = 0.8x - 4 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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

$$1) \begin{cases} y = 4.25x - 8 \\ y = 3.5x - 5 \end{cases}$$

$$4.25x + -8 = 3.5x + -5$$

$$0.75x = 3$$

$$1x = 4$$

$$y = (4.25 \times 4) + -8$$

$$y = (3.5 \times 4) + -5$$

$$2) \begin{cases} y = -2.5x + 2 \\ y = -5.5x - 4 \end{cases}$$

$$-2.5x + 2 = -5.5x + -4$$

$$3x = -6$$

$$1x = -2$$

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

$$y = (-5.5 \times -2) + -4$$

$$3) \begin{cases} y = 0.75x + 8 \\ y = -3.5x - 9 \end{cases}$$

$$0.75x + 8 = -3.5x + -9$$

$$4.25x = -17$$

$$1x = -4$$

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

$$y = (-3.5 \times -4) + -9$$

$$4) \begin{cases} y = -0.6x - 5 \\ y = 0.2x - 1 \end{cases}$$

$$-0.6x + -5 = 0.2x + -1$$

$$-0.8x = 4$$

$$1x = -5$$

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

$$y = (0.2 \times -5) + -1$$

$$5) \begin{cases} y = 1.75x - 5 \\ y = 0.5x + 0 \end{cases}$$

$$1.75x + -5 = 0.5x + 0$$

$$1.25x = 5$$

$$1x = 4$$

$$y = (1.75 \times 4) + -5$$

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

$$6) \begin{cases} y = -1.75x + 3 \\ y = 0.75x - 7 \end{cases}$$

$$-1.75x + 3 = 0.75x + -7$$

$$-2.5x = -10$$

$$1x = 4$$

$$y = (-1.75 \times 4) + 3$$

$$y = (0.75 \times 4) + -7$$

$$7) \begin{cases} y = 0.6x - 4 \\ y = 0.4x - 5 \end{cases}$$

$$0.6x + -4 = 0.4x + -5$$

$$0.2x = -1$$

$$1x = -5$$

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

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

$$8) \begin{cases} y = 0.75x + 8 \\ y = -0.75x + 2 \end{cases}$$

$$0.75x + 8 = -0.75x + 2$$

$$1.5x = -6$$

$$1x = -4$$

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

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

$$9) \begin{cases} y = -4.25x - 8 \\ y = -2.75x - 2 \end{cases}$$

$$-4.25x + -8 = -2.75x + -2$$

$$-1.5x = 6$$

$$1x = -4$$

$$y = (-4.25 \times -4) + -8$$

$$y = (-2.75 \times -4) + -2$$

$$10) \begin{cases} y = 0.6x - 5 \\ y = 0.8x - 4 \end{cases}$$

$$0.6x + -5 = 0.8x + -4$$

$$-0.2x = 1$$

$$1x = -5$$

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

$$y = (0.8 \times -5) + -4$$

Answers1. (4, 9)2. (-2, 7)3. (-4, 5)4. (-5, -2)5. (4, 2)6. (4, -4)7. (-5, -7)8. (-4, 5)9. (-4, 9)10. (-5, -8)