



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

Answers

1)
$$\begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$$

2)
$$\begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$$

4)
$$\begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$$

6)
$$\begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$$

8)
$$\begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$$

9)
$$\begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$$

10)
$$\begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$$



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

Answers

1) $\begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$
 $-0.25x + 7 = 2.25x - 3$
 $-2.5x = -10$
 $1x = 4$
 $y = (-0.25 \times 4) + 7$
 $y = (2.25 \times 4) - 3$

2) $\begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$
 $-7.5x + 6 = -3.5x - 2$
 $-4x = -8$
 $1x = 2$
 $y = (-7.5 \times 2) + 6$
 $y = (-3.5 \times 2) - 2$

3) $\begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$
 $2.25x - 1 = 3.5x - 6$
 $-1.25x = -5$
 $1x = 4$
 $y = (2.25 \times 4) - 1$
 $y = (3.5 \times 4) - 6$

4) $\begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$
 $-1.5x - 9 = -0.6x + 0$
 $-0.9x = 9$
 $1x = -10$
 $y = (-1.5 \times -10) - 9$
 $y = (-0.6 \times -10) + 0$

5) $\begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$
 $0.25x - 3 = -1.25x + 3$
 $1.5x = 6$
 $1x = 4$
 $y = (0.25 \times 4) - 3$
 $y = (-1.25 \times 4) + 3$

6) $\begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$
 $-0.5x + 9 = 0.75x - 1$
 $-1.25x = -10$
 $1x = 8$
 $y = (-0.5 \times 8) + 9$
 $y = (0.75 \times 8) - 1$

7) $\begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$
 $-0.4x + 2 = 0.2x + 8$
 $-0.6x = 6$
 $1x = -10$
 $y = (-0.4 \times -10) + 2$
 $y = (0.2 \times -10) + 8$

8) $\begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$
 $7.5x - 7 = 4.5x - 1$
 $3x = 6$
 $1x = 2$
 $y = (7.5 \times 2) - 7$
 $y = (4.5 \times 2) - 1$

9) $\begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$
 $-2.75x - 1 = -1.5x + 4$
 $-1.25x = 5$
 $1x = -4$
 $y = (-2.75 \times -4) - 1$
 $y = (-1.5 \times -4) + 4$

10) $\begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$
 $-0.5x - 8 = 0.1x - 2$
 $-0.6x = 6$
 $1x = -10$
 $y = (-0.5 \times -10) - 8$
 $y = (0.1 \times -10) - 2$

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