



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

Answers

1)
$$\begin{cases} y = -1.3x - 3 \\ y = -0.4x + 6 \end{cases}$$

2)
$$\begin{cases} y = 1.75x + 1 \\ y = 3.25x - 5 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = -1.5x + 4 \\ y = -1.75x + 5 \end{cases}$$

4)
$$\begin{cases} y = 1.25x + 2 \\ y = 0.5x - 1 \end{cases}$$

5. _____

6. _____

7. _____

8. _____

5)
$$\begin{cases} y = -0.25x + 8 \\ y = -2.25x + 0 \end{cases}$$

6)
$$\begin{cases} y = 0.25x + 7 \\ y = -0.5x + 4 \end{cases}$$

9. _____

10. _____

7)
$$\begin{cases} y = -0.25x - 5 \\ y = -0.75x - 9 \end{cases}$$

8)
$$\begin{cases} y = 0.7x - 3 \\ y = 0.6x - 2 \end{cases}$$

9)
$$\begin{cases} y = 0.25x + 2 \\ y = 0.5x + 1 \end{cases}$$

10)
$$\begin{cases} y = -2.5x + 0 \\ y = -0.5x + 8 \end{cases}$$



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

Answers

1) $\begin{cases} y = -1.3x - 3 \\ y = -0.4x + 6 \end{cases}$
 $-1.3x - 3 = -0.4x + 6$
 $-0.9x = 9$
 $1x = -10$
 $y = (-1.3 \times -10) - 3$
 $y = (-0.4 \times -10) + 6$

2) $\begin{cases} y = 1.75x + 1 \\ y = 3.25x - 5 \end{cases}$
 $1.75x + 1 = 3.25x - 5$
 $-1.5x = -6$
 $1x = 4$
 $y = (1.75 \times 4) + 1$
 $y = (3.25 \times 4) - 5$

3) $\begin{cases} y = -1.5x + 4 \\ y = -1.75x + 5 \end{cases}$
 $-1.5x + 4 = -1.75x + 5$
 $0.25x = 1$
 $1x = 4$
 $y = (-1.5 \times 4) + 4$
 $y = (-1.75 \times 4) + 5$

4) $\begin{cases} y = 1.25x + 2 \\ y = 0.5x - 1 \end{cases}$
 $1.25x + 2 = 0.5x - 1$
 $0.75x = -3$
 $1x = -4$
 $y = (1.25 \times -4) + 2$
 $y = (0.5 \times -4) - 1$

5) $\begin{cases} y = -0.25x + 8 \\ y = -2.25x + 0 \end{cases}$
 $-0.25x + 8 = -2.25x + 0$
 $2x = -8$
 $1x = -4$
 $y = (-0.25 \times -4) + 8$
 $y = (-2.25 \times -4) + 0$

6) $\begin{cases} y = 0.25x + 7 \\ y = -0.5x + 4 \end{cases}$
 $0.25x + 7 = -0.5x + 4$
 $0.75x = -3$
 $1x = -4$
 $y = (0.25 \times -4) + 7$
 $y = (-0.5 \times -4) + 4$

7) $\begin{cases} y = -0.25x - 5 \\ y = -0.75x - 9 \end{cases}$
 $-0.25x - 5 = -0.75x - 9$
 $0.5x = -4$
 $1x = -8$
 $y = (-0.25 \times -8) - 5$
 $y = (-0.75 \times -8) - 9$

8) $\begin{cases} y = 0.7x - 3 \\ y = 0.6x - 2 \end{cases}$
 $0.7x - 3 = 0.6x - 2$
 $0.1x = 1$
 $1x = 10$
 $y = (0.7 \times 10) - 3$
 $y = (0.6 \times 10) - 2$

9) $\begin{cases} y = 0.25x + 2 \\ y = 0.5x + 1 \end{cases}$
 $0.25x + 2 = 0.5x + 1$
 $-0.25x = -1$
 $1x = 4$
 $y = (0.25 \times 4) + 2$
 $y = (0.5 \times 4) + 1$

10) $\begin{cases} y = -2.5x + 0 \\ y = -0.5x + 8 \end{cases}$
 $-2.5x + 0 = -0.5x + 8$
 $-2x = 8$
 $1x = -4$
 $y = (-2.5 \times -4) + 0$
 $y = (-0.5 \times -4) + 8$

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