



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

1)
$$\begin{cases} y = -0.25x + 9 \\ y = -3.75x - 5 \end{cases}$$

2)
$$\begin{cases} y = -1.25x + 2 \\ y = 0.5x + 9 \end{cases}$$

3)
$$\begin{cases} y = -3.5x - 9 \\ y = -2.75x - 6 \end{cases}$$

4)
$$\begin{cases} y = 2.5x - 8 \\ y = -2.5x + 2 \end{cases}$$

5)
$$\begin{cases} y = -1.3x + 8 \\ y = -0.3x - 2 \end{cases}$$

6)
$$\begin{cases} y = -0.1x - 5 \\ y = 0.4x + 0 \end{cases}$$

7)
$$\begin{cases} y = 0.1x - 6 \\ y = -0.6x + 1 \end{cases}$$

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

9)
$$\begin{cases} y = -1.75x - 8 \\ y = -1.25x - 4 \end{cases}$$

10)
$$\begin{cases} y = -0.6x + 3 \\ y = -0.5x + 2 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

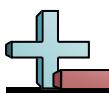
6. _____

7. _____

8. _____

9. _____

10. _____



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

1)
$$\begin{cases} y = -0.25x + 9 \\ y = -3.75x - 5 \end{cases}$$

$$\begin{aligned} -0.25x+9 &= -3.75x+-5 \\ 3.5x &= -14 \\ 1x &= -4 \\ y &= (-0.25\times-4)+9 \\ y &= (-3.75\times-4)+-5 \end{aligned}$$

2)
$$\begin{cases} y = -1.25x + 2 \\ y = 0.5x + 9 \end{cases}$$

$$\begin{aligned} -1.25x+2 &= 0.5x+9 \\ -1.75x &= 7 \\ 1x &= -4 \\ y &= (-1.25\times-4)+2 \\ y &= (0.5\times-4)+9 \end{aligned}$$

3)
$$\begin{cases} y = -3.5x - 9 \\ y = -2.75x - 6 \end{cases}$$

$$\begin{aligned} -3.5x+-9 &= -2.75x+-6 \\ -0.75x &= 3 \\ 1x &= -4 \\ y &= (-3.5\times-4)+-9 \\ y &= (-2.75\times-4)+-6 \end{aligned}$$

4)
$$\begin{cases} y = 2.5x - 8 \\ y = -2.5x + 2 \end{cases}$$

$$\begin{aligned} 2.5x+-8 &= -2.5x+2 \\ 5x &= 10 \\ 1x &= 2 \\ y &= (2.5\times2)+-8 \\ y &= (-2.5\times2)+2 \end{aligned}$$

5)
$$\begin{cases} y = -1.3x + 8 \\ y = -0.3x - 2 \end{cases}$$

$$\begin{aligned} -1.3x+8 &= -0.3x+-2 \\ -1x &= -10 \\ 1x &= 10 \\ y &= (-1.3\times10)+8 \\ y &= (-0.3\times10)+-2 \end{aligned}$$

6)
$$\begin{cases} y = -0.1x - 5 \\ y = 0.4x + 0 \end{cases}$$

$$\begin{aligned} -0.1x+-5 &= 0.4x+0 \\ -0.5x &= 5 \\ 1x &= -10 \\ y &= (-0.1\times-10)+-5 \\ y &= (0.4\times-10)+0 \end{aligned}$$

7)
$$\begin{cases} y = 0.1x - 6 \\ y = -0.6x + 1 \end{cases}$$

$$\begin{aligned} 0.1x+-6 &= -0.6x+1 \\ 0.7x &= 7 \\ 1x &= 10 \\ y &= (0.1\times10)+-6 \\ y &= (-0.6\times10)+1 \end{aligned}$$

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

$$\begin{aligned} 4.25x+-8 &= 2.75x+-2 \\ 1.5x &= 6 \\ 1x &= 4 \\ y &= (4.25\times4)+-8 \\ y &= (2.75\times4)+-2 \end{aligned}$$

9)
$$\begin{cases} y = -1.75x - 8 \\ y = -1.25x - 4 \end{cases}$$

$$\begin{aligned} -1.75x+-8 &= -1.25x+-4 \\ -0.5x &= 4 \\ 1x &= -8 \\ y &= (-1.75\times-8)+-8 \\ y &= (-1.25\times-8)+-4 \end{aligned}$$

10)
$$\begin{cases} y = -0.6x + 3 \\ y = -0.5x + 2 \end{cases}$$

$$\begin{aligned} -0.6x+3 &= -0.5x+2 \\ -0.1x &= -1 \\ 1x &= 10 \\ y &= (-0.6\times10)+3 \\ y &= (-0.5\times10)+2 \end{aligned}$$

Answers

1. **(-4, 10)**

2. **(-4, 7)**

3. **(-4, 5)**

4. **(2, -3)**

5. **(10, -5)**

6. **(-10, -4)**

7. **(10, -5)**

8. **(4, 9)**

9. **(-8, 6)**

10. **(10, -3)**