

**Bestimmen Sie für jedes Gleichungssystem den Schnittpunkt in einem Graphen.****Antworten**

1)
$$\begin{cases} y = -1.25x - 4 \\ y = -2.25x - 8 \end{cases}$$

2)
$$\begin{cases} y = -1.25x - 5 \\ y = -0.25x - 1 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

3)
$$\begin{cases} y = 1.5x + 2 \\ y = 0.5x + 4 \end{cases}$$

4)
$$\begin{cases} y = -0.5x - 1 \\ y = 0.5x - 9 \end{cases}$$

5. _____

6. _____

7. _____

5)
$$\begin{cases} y = -0.6x - 9 \\ y = 0.1x - 2 \end{cases}$$

6)
$$\begin{cases} y = -5.5x + 8 \\ y = 0.5x - 4 \end{cases}$$

8. _____

9. _____

10. _____

7)
$$\begin{cases} y = 0.4x - 5 \\ y = 0.5x - 6 \end{cases}$$

8)
$$\begin{cases} y = 0.6x + 4 \\ y = 0.9x + 1 \end{cases}$$

9)
$$\begin{cases} y = -0.6x - 3 \\ y = -0.2x + 1 \end{cases}$$

10)
$$\begin{cases} y = -0.4x + 9 \\ y = 0.3x + 2 \end{cases}$$



Bestimmen Sie für jedes Gleichungssystem den Schnittpunkt in einem Graphen.

Antworten

1) $\begin{cases} y = -1.25x - 4 \\ y = -2.25x - 8 \end{cases}$
 $-1.25x - 4 = -2.25x - 8$
 $1x = -4$
 $1x = -4$
 $y = (-1.25 \times -4) - 4$
 $y = (-2.25 \times -4) - 8$

2) $\begin{cases} y = -1.25x - 5 \\ y = -0.25x - 1 \end{cases}$
 $-1.25x - 5 = -0.25x - 1$
 $-1x = 4$
 $1x = -4$
 $y = (-1.25 \times -4) - 5$
 $y = (-0.25 \times -4) - 1$

3) $\begin{cases} y = 1.5x + 2 \\ y = 0.5x + 4 \end{cases}$
 $1.5x + 2 = 0.5x + 4$
 $1x = 2$
 $1x = 2$
 $y = (1.5 \times 2) + 2$
 $y = (0.5 \times 2) + 4$

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

5) $\begin{cases} y = -0.6x - 9 \\ y = 0.1x - 2 \end{cases}$
 $-0.6x - 9 = 0.1x - 2$
 $-0.7x = 7$
 $1x = -10$
 $y = (-0.6 \times -10) - 9$
 $y = (0.1 \times -10) - 2$

6) $\begin{cases} y = -5.5x + 8 \\ y = 0.5x - 4 \end{cases}$
 $-5.5x + 8 = 0.5x - 4$
 $-6x = -12$
 $1x = 2$
 $y = (-5.5 \times 2) + 8$
 $y = (0.5 \times 2) - 4$

7) $\begin{cases} y = 0.4x - 5 \\ y = 0.5x - 6 \end{cases}$
 $0.4x - 5 = 0.5x - 6$
 $-0.1x = -1$
 $1x = 10$
 $y = (0.4 \times 10) - 5$
 $y = (0.5 \times 10) - 6$

8) $\begin{cases} y = 0.6x + 4 \\ y = 0.9x + 1 \end{cases}$
 $0.6x + 4 = 0.9x + 1$
 $-0.3x = -3$
 $1x = 10$
 $y = (0.6 \times 10) + 4$
 $y = (0.9 \times 10) + 1$

9) $\begin{cases} y = -0.6x - 3 \\ y = -0.2x + 1 \end{cases}$
 $-0.6x - 3 = -0.2x + 1$
 $-0.4x = 4$
 $1x = -10$
 $y = (-0.6 \times -10) - 3$
 $y = (-0.2 \times -10) + 1$

10) $\begin{cases} y = -0.4x + 9 \\ y = 0.3x + 2 \end{cases}$
 $-0.4x + 9 = 0.3x + 2$
 $-0.7x = -7$
 $1x = 10$
 $y = (-0.4 \times 10) + 9$
 $y = (0.3 \times 10) + 2$

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