

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

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



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Antworten

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)