

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

1) 
$$\begin{cases} y = 0.1x + 7 \\ y = -0.2x + 4 \end{cases}$$

2) 
$$\begin{cases} y = 2.75x + 4 \\ y = -0.25x - 8 \end{cases}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

3) 
$$\begin{cases} y = -0.2x + 8 \\ y = 1.5x - 9 \end{cases}$$

4) 
$$\begin{cases} y = -1.2x + 6 \\ y = -1.3x + 7 \end{cases}$$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

5) 
$$\begin{cases} y = 1.5x - 8 \\ y = 1.25x - 6 \end{cases}$$

6) 
$$\begin{cases} y = -0.5x + 3 \\ y = -1.5x + 1 \end{cases}$$

9. \_\_\_\_\_

10. \_\_\_\_\_

7) 
$$\begin{cases} y = 0.6x + 4 \\ y = 1.8x - 2 \end{cases}$$

8) 
$$\begin{cases} y = 1.5x - 2 \\ y = 0.5x + 2 \end{cases}$$

9) 
$$\begin{cases} y = -0.1x + 0 \\ y = 0.3x + 4 \end{cases}$$

10) 
$$\begin{cases} y = -0.5x - 7 \\ y = -1.5x - 1 \end{cases}$$



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Antworten

1)  $\begin{cases} y = 0.1x + 7 \\ y = -0.2x + 4 \end{cases}$   
 $0.1x + 7 = -0.2x + 4$   
 $0.3x = -3$   
 $1x = -10$   
 $y = (0.1 \times -10) + 7$   
 $y = (-0.2 \times -10) + 4$

2)  $\begin{cases} y = 2.75x + 4 \\ y = -0.25x - 8 \end{cases}$   
 $2.75x + 4 = -0.25x - 8$   
 $3x = -12$   
 $1x = -4$   
 $y = (2.75 \times -4) + 4$   
 $y = (-0.25 \times -4) - 8$

3)  $\begin{cases} y = -0.2x + 8 \\ y = 1.5x - 9 \end{cases}$   
 $-0.2x + 8 = 1.5x - 9$   
 $-1.7x = -17$   
 $1x = 10$   
 $y = (-0.2 \times 10) + 8$   
 $y = (1.5 \times 10) - 9$

4)  $\begin{cases} y = -1.2x + 6 \\ y = -1.3x + 7 \end{cases}$   
 $-1.2x + 6 = -1.3x + 7$   
 $0.1x = 1$   
 $1x = 10$   
 $y = (-1.2 \times 10) + 6$   
 $y = (-1.3 \times 10) + 7$

5)  $\begin{cases} y = 1.5x - 8 \\ y = 1.25x - 6 \end{cases}$   
 $1.5x - 8 = 1.25x - 6$   
 $0.25x = 2$   
 $1x = 8$   
 $y = (1.5 \times 8) - 8$   
 $y = (1.25 \times 8) - 6$

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

7)  $\begin{cases} y = 0.6x + 4 \\ y = 1.8x - 2 \end{cases}$   
 $0.6x + 4 = 1.8x - 2$   
 $-1.2x = -6$   
 $1x = 5$   
 $y = (0.6 \times 5) + 4$   
 $y = (1.8 \times 5) - 2$

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

9)  $\begin{cases} y = -0.1x + 0 \\ y = 0.3x + 4 \end{cases}$   
 $-0.1x + 0 = 0.3x + 4$   
 $-0.4x = 4$   
 $1x = -10$   
 $y = (-0.1 \times -10) + 0$   
 $y = (0.3 \times -10) + 4$

10)  $\begin{cases} y = -0.5x - 7 \\ y = -1.5x - 1 \end{cases}$   
 $-0.5x - 7 = -1.5x - 1$   
 $1x = 6$   
 $1x = 6$   
 $y = (-0.5 \times 6) - 7$   
 $y = (-1.5 \times 6) - 1$

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