



Einfache Gleichungen

Löse die Gleichungen.

1.) $9x + 4 = 31 + 6x$ $-6x$

$$\begin{array}{rcl} 3x + 4 & = & 31 \\ 3x & = & 27 \\ x & = & 9 \end{array} \quad \begin{array}{l} | -4 \\ | :3 \end{array}$$

2.) $6x + 6 = 9x - 21$ $-6x$

$$\begin{array}{rcl} 6 & = & 3x - 21 \\ 27 & = & 3x \\ x & = & 9 \end{array} \quad \begin{array}{l} | +21 \\ | :3 \end{array}$$

3.) $9 + 5x = 5 + 9x$ $-5x$

$$\begin{array}{rcl} 9 & = & 5 + 4x \\ 4 & = & 4x \\ x & = & 1 \end{array} \quad \begin{array}{l} | -5 \\ | :4 \end{array}$$

4.) $9x + 9 = 37 + 2x$ $-2x$

$$\begin{array}{rcl} 7x + 9 & = & 37 \\ 7x & = & 28 \\ x & = & 4 \end{array} \quad \begin{array}{l} | -9 \\ | :7 \end{array}$$

5.) $9 + 6x = x + 54$ $-x$

$$\begin{array}{rcl} 9 + 5x & = & 54 \\ 5x & = & 45 \\ x & = & 9 \end{array} \quad \begin{array}{l} | -9 \\ | :5 \end{array}$$

6.) $x + 4 = 3x - 8$ $-x$

$$\begin{array}{rcl} 4 & = & 2x - 8 \\ 12 & = & 2x \\ x & = & 6 \end{array} \quad \begin{array}{l} | +8 \\ | :2 \end{array}$$

7.) $8x + 2 = 7 + 7x$ $-7x$

$$\begin{array}{rcl} x + 2 & = & 7 \\ x & = & 5 \end{array} \quad | -2$$

8.) $5 + 5x = 37 + x$ $-x$

$$\begin{array}{rcl} 5 + 4x & = & 37 \\ 4x & = & 32 \\ x & = & 8 \end{array} \quad \begin{array}{l} | -5 \\ | :4 \end{array}$$

9.) $1 + 3x = 6x - 8$ $-3x$

$$\begin{array}{rcl} 1 & = & 3x - 8 \\ 3x & = & 9 \\ x & = & 3 \end{array} \quad \begin{array}{l} | +8 \\ | :3 \end{array}$$

10.) $3 + 7x = 9x - 3$ $-7x$

$$\begin{array}{rcl} 3 & = & 2x - 3 \\ 6 & = & 2x \\ x & = & 3 \end{array} \quad \begin{array}{l} | +3 \\ | :2 \end{array}$$

11.) $8x + 6 = 5 + 9x$ $-8x$

$$\begin{array}{rcl} 6 & = & 5 + x \\ x & = & 1 \end{array} \quad | -5$$

12.) $4 + 4x = 12 + 3x$ $-3x$

$$\begin{array}{rcl} 4 + x & = & 12 \\ x & = & 8 \end{array} \quad | -4$$

13.) $2x + 8 = x + 14$ $-x$

$$\begin{array}{rcl} x + 8 & = & 14 \\ x & = & 6 \end{array} \quad | -8$$

14.) $5 + 8x = x + 47$ $-x$

$$\begin{array}{rcl} 5 + 7x & = & 47 \\ 7x & = & 42 \\ x & = & 6 \end{array} \quad \begin{array}{l} | -5 \\ | :7 \end{array}$$