

Einfache Gleichungen II

(LÖSUNG)



$$\begin{aligned} 1) \quad 9x + 4 &= 31 + 6x & | -6x \\ 3x + 4 &= 31 & | -4 \\ 3x &= 27 & | :3 \\ x &= 9 \end{aligned}$$

$$\begin{aligned} 2) \quad 6x + 6 &= 9x - 21 & | -6x \\ 6 &= 3x - 21 & | +21 \\ 27 &= 3x & | :3 \\ 9 &= x \end{aligned}$$

$$\begin{aligned} 3) \quad 9 + 5x &= 5 + 9x & | -5x \\ 9 &= 5 + 4x & | -5 \\ 4 &= 4x & | :4 \\ 1 &= x \end{aligned}$$

$$\begin{aligned} 4) \quad 9x + 9 &= 37 + 2x & | -2x \\ 7x + 9 &= 37 & | -9 \\ 7x &= 28 & | :7 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} 9) \quad 5 + 5x &= 37 + x & | -x \\ 5 + 4x &= 37 & | -5 \\ 4x &= 32 & | :4 \\ x &= 8 \end{aligned}$$

$$\begin{aligned} 10) \quad 1 + 3x &= 6x - 8 & | -3x \\ 1 &= 3x - 8 & | +8 \\ 9 &= 3x & | :3 \\ 3 &= x \end{aligned}$$

$$\begin{aligned} 11) \quad 3 + 7x &= 9x - 3 & | -7x \\ 3 &= 2x - 3 & | +3 \\ 6 &= 2x & | :2 \\ 3 &= x \end{aligned}$$

$$\begin{aligned} 12) \quad 8x + 6 &= 5 + 9x & | -8x \\ 6 &= 5 + x & | -5 \\ 1 &= x \end{aligned}$$

$$\begin{array}{lcl}
 5) & 9 + 6x = x + 54 & | -x \\
 & 9 + 5x = 54 & | -9 \\
 & 5x = 45 & | :5 \\
 & x = 9 &
 \end{array}$$

$$\begin{array}{lcl}
 6) & x + 4 = 3x - 8 & | -x \\
 & 4 = 2x - 8 & | +8 \\
 & 12 = 2x & | :2 \\
 & 6 = x &
 \end{array}$$

$$\begin{array}{lcl}
 7) & 8x + 2 = 7 + 7x & | -7x \\
 & x + 2 = 7 & | -2 \\
 & x = 5 &
 \end{array}$$

$$\begin{array}{lcl}
 8) & 3x + 4 = 5x - 12 & | -3x \\
 & 4 = 2x - 12 & | +12 \\
 & 16 = 2x & | :2 \\
 & 8 = x &
 \end{array}$$

$$\begin{array}{lcl}
 13) & 4 + 4x = 12 + 3x & | -3x \\
 & 4 + x = 12 & | -4 \\
 & x = 8 &
 \end{array}$$

$$\begin{array}{lcl}
 14) & 2x + 8 = x + 14 & | -x \\
 & x + 8 = 14 & | -8 \\
 & x = 6 &
 \end{array}$$

$$\begin{array}{lcl}
 15) & 5 + 8x = x + 47 & | -x \\
 & 5 + 7x = 47 & | -5 \\
 & 7x = 42 & | :7 \\
 & x = 6 &
 \end{array}$$

$$\begin{array}{lcl}
 16) & 3x + 1 = 9 + 2x & | -2x \\
 & x + 1 = 9 & | -1 \\
 & x = 8 &
 \end{array}$$

