

1	$0 = 8x - (4x + 12)$	Klammer auflösen
	$0 = 8x - 4x - 12$	vereinfachen
	$0 = 4x - 12$	auf beiden Seiten 12 addieren
	$12 = 4x$	beide Seiten durch 4 dividieren
	$3 = x$	

$$\begin{array}{rcl}
 7x - 10 & = & 15 - (x - 14) \\
 7x - 10 & = & 15 - x + 14 \\
 7x - 10 & = & 29 - x & | +x + 10 \\
 7x - 10 + x + 10 & = & 29 - x + x + 10 \\
 8x & = & 39 & | :8 \\
 x & = & \frac{39}{8}
 \end{array}$$

$$\begin{array}{rcl}
 7(x+1) & = & 6(x-1) \\
 7x + 7 & = & 6x - 6 \\
 7x + 7 - 6x - 7 & = & 6x - 6 - 6x - 7 \\
 x & = & -13
 \end{array}$$

$$\begin{aligned} 4 \quad & 57 - 2(x + 21) = 63 - 2(3x + 4) \\ & 57 - 2x - 42 = 63 - 6x - 8 \\ & 15 - 2x = 55 - 6x \\ & 15 - 2x + 6x - 15 = 55 - 6x + 6x - 15 \\ & 4x = 40 \\ & x = 10 \end{aligned}$$

$$\begin{array}{ll}
 5(x+7) + 2(x+7) - 4(x+7) = 3 & \mid \text{zusammenfassen!} \\
 3(x+7) = 3 & \mid : 3 \\
 x+7 = 1 & \\
 x = -6 &
 \end{array}$$

$$\begin{array}{l}
 15 - 3(2x - 1) = 16(x + 1) - 2(x - 1) \\
 15 - 6x + 3 = 16x + 16 - 2x + 2 \\
 18 - 6x = 14x + 18 \\
 | +6x - 18 \\
 18 - 6x + 6x - 18 = 14x + 18 + 6x - 18 \\
 0 = 20x \\
 \textbf{0} = \textbf{x}
 \end{array}$$