

1	$x^2 - 64 = 0$	$(x - 144)^2 = 0$	$(x-2)(x+3) = 0$	$x^3 + 27 = 0$
2	$x^2 + 11 = 11$	$x^2 - 2x = 0$	$x(x+3) = 0$	$2x - x = 0$
3	$4x^2 - 4 = 0$	$4x^2 - 4x + 1 = 0$	$(3x - 6)(2 - x) = 0$	$0,5x^2 = 72$
4	$7x = 7x-1$	$5x^2 - 10x + 5 = 0$	$(\frac{1}{3}x + 2)(2 - x) = 0$	$(5 - 2x)^2 = 0$
5	$x^2 - 169 = 0$	$(x+144)^2 = 0$	$2(x+5)(5+x) = 0$	$x^2 + 196 = 0$
6	$4x^2 - 1 = 0$	$16 - x^2 = 0$	$2(x - 1)^2 = 0$	$\frac{1}{2}(x + 2)^2 = 0$
7	$x^2 - 4 = 5$	$x^2 + 4 = 4$	$123x^2 + 5 = 0$	$3x^2 - 3 = 0$
8	$16x^2 - 4 = 0$	$x^2 + 2,5x - 27 = 0$	$2(x + 2)^2 = 0$	$x^2 - x - 6 = 0$
9	$x^2 + 2x + 1 = 0$	$2(x - 2)^2 = 0$	$121 - x^2 = 0$	$\frac{1}{2}(x - 2)^2 = 0$
10	$4 - x^2 = 0$	$3(x + 1)^2 = 0$	$\frac{1}{2}(x - 1)^2 = 0$	$144 + x^2 = 0$
11	$2(x + 1)^2 = 0$	$123x^2 + 5 = 0$	$x^2 + 9 = 0$	$x^2 + 4 = 4$
12	$x^2 - 6x + 5 = 0$	$2x^2 - 4 = 14$	$x^2 - 4 = 5$	$x^2 + 2bx - 3b^2 = 0$

Sortiere die Gleichungen nach:

- | | | | |
|----|--|---|------------------------------------|
| 1) | Quadratische Gleichung | - | keine quadratische Gleichung |
| 2) | lösbare Gleichung | - | (noch) unlösbare Gleichung |
| 3) | rein quadratischen Gleichung | - | Gleichung mit zwei gleichen Faktor |
| | gemischt quadratische Gleichung (Gleichung mit zwei ungleichen Faktoren) | | |