## Mathematik-Intensivierung \* Jahrgangsstufe 9 Satz von Vieta

Nr.	Quadratische Gleichung
1	$x^2 + 3x - 28 = 0$
2	$x^2 - 3x - 28 = 0$
3	$x^2 -11x + 28 = 0$
4	$x^2 + 11x + 28 = 0$
5	$x^2 + 3x - 18 = 0$
6	$x^2 + 7x - 18 = 0$
7	$x^2 - 11x - 12 = 0$
8	$x^2 - 9x + 8 = 0$
9	$x^2 - 18x + 45 = 0$
10	$x^2 + 2x - 48 = 0$
11	$x^2 + 10x - 24 = 0$
12	$x^2 + x - 132 = 0$
13	$x^2 - 12x + 36 = 0$
14	$x^2 + x - 20 = 0$
15	$x^2 - 13x + 42 = 0$
16	$x^2 - 2x - 8 = 0$
17	$x^2 + 4x - 96 = 0$
18	$x^2 - 16x + 60 = 0$
19	$x^2 - 3x - 54 = 0$
20	$x^2 + 3x - 108 = 0$

Löse die folgenden quadratischen Gleichungen mit dem Satz von Vieta



Nr.	Faktorisierung	Lösungen
1	(x-4)(x+7) = 0	$x_1 = 4$ ; $x_2 = -7$
2	(x+4)(x-7) = 0	$x_1 = -4$ ; $x_2 = 7$
3	(x-4)(x-7) = 0	$x_1 = 4$ ; $x_2 = 7$
4	(x+4)(x+7) = 0	$x_1 = -4$ ; $x_2 = -7$
5	(x -3)(x + 6) = 0	$x_1 = 3$ ; $x_2 = -6$
6	(x+9)(x-2) = 0	$x_1 = -9$ ; $x_2 = 2$
7	(x+1)(x-12) = 0	$x_1 = -1$ ; $x_2 = 12$
8	(x-1)(x-8) = 0	$x_1 = 1$ ; $x_2 = 8$
9	(x-3)(x-15) = 0	$x_1 = 3$ ; $x_2 = 15$
10	(x-6)(x+8) = 0	$x_1 = 6$ ; $x_2 = -8$
11	(x+12)(x-2) = 0	$x_1 = -12$ ; $x_2 = 2$
12	(x+12)(x-11) = 0	$x_1 = -12$ ; $x_2 = 11$
13	$(\mathbf{x}-6)^2 = 0$	$x_1 = x_2 = 6$
14	(x-4)(x+5) = 0	$x_1 = 4$ ; $x_2 = -5$
15	(x-7)(x-6) = 0	$x_1 = 7$ ; $x_2 = 6$
16	(x-4)(x+2) = 0	$x_1 = 4$ ; $x_2 = -2$
17	(x-8)(x+12) = 0	$x_1 = 8$ ; $x_2 = -12$
18	(x-6)(x-10) = 0	$x_1 = 6$ ; $x_2 = 10$
19	(x-9)(x+6) = 0	$x_1 = 9$ ; $x_2 = -6$
20	(x+12)(x-9) = 0	$x_1 = -12$ ; $x_2 = 9$

