

Quadratzahl + doppelt-gemischtes Produkt + Quadratzahl

$$x^2 + 2xy + y^2 = (x+y)(x+y)$$

1.  $a^2 + 2a + 1 = (a + 1)(a + 1)$
2.  $4x^2 + 4x + 1 = (2x + 1)(2x + 1)$
3.  $9w^2 + 6w + 1 = (3w + 1)(3w + 1)$
4.  $a^2 + 4a + 4 = (a + 2)(a + 2)$
5.  $4v^2 + 12v + 9 = (2v + 3)(2v + 3)$
6.  $16x^2 + 40x + 25 = (4x + 5)(4x + 5)$
7.  $81z^2 + 144z + 64 = (9z + 8)(9z + 8)$
8.  $x^2 + 4xy + 4y^2 = (x + 2y)(x + 2y)$
9.  $4a^2 + 12ab + 9b^2 = (2a + 3b)(2a + 3b)$
10.  $9s^2 + 12st + 4t^2 = (3s + 2t)(3s + 2t)$
11.  $49x^2 + 126xy + 81y^2 = (7x + 9y)(7x + 9y)$
12.  $x^2 + 16x + 64 = (x + 8)(x + 8)$
  
13.  $x^2 + 14x + 49 = (x + 7)(x + 7)$
14.  $x^2 + 8x + 16 = (x + 4)(x + 4)$
15.  $x^2 + 12x + 36 = (x + 6)(x + 6)$
16.  $x^2 + 10x + 25 = (x + 5)(x + 5)$
17.  $x^2 + 4x + 4 = (x + 2)(x + 2)$
18.  $25x^2 + 30xy + 9y^2 = (5x + 3y)(5x + 3y)$
19.  $4x^2 + 12xy + 9y^2 = (2x + 3y)(2x + 3y)$
20.  $25x^2 + 70xy + 49y^2 = (5x + 7y)(5x + 7y)$
21.  $x^6 + 6x^3 + 9 = (x^3 + 3)(x^3 + 3)$
22.  $100x^2 + 40xy + 4y^2 = (10x + 2y)(10x + 2y)$
23.  $x^2 + 18xy + 81y^2 = (x + 9y)(x + 9y)$
24.  $25x^2 + 40xy + 16y^2 = (5x + 4y)(5x + 4y)$
25.  $9x^4 + 12x^2y^2 + 4y^4 = (3x^2 + 2y^2)(3x^2 + 2y^2)$