

- 1  $2a(a-b) - c(a-b) = (a-b)(2a-c)$
- 2  $4a(x+y) + x+y = (x+y)(4a+1)$
- 3  $6az - 9bz + 21cz = 3z(2a - 3b + 7c)$
- 4  $26bc^3 - 39b^2c + 13bc = 13bc(2c^2 - 3b + 1)$
- 5  $35x^2y - 28xy^2 + 7xy = 7xy(5x - 4y + 1)$
  
- 6  $9a^2 + 6a + 1 = (3a + 1)^2$
- 7  $25x^2 + 20xy + 4y^2 = (5x + 2y)^2$
- 8  $25n^2 - 80mn + 64m^2 = (5n - 8m)^2$
- 9  $64a^2b^2 - 9c^2 = (8ab + 3c)(8ab - 3c)$
- 10  $b^2 - 361 = (b + 19)(b - 19)$
  
- 11  $80a^2 - 120ab + 45b^2 = 5(4a - 3b)^2$
- 12  $2x^2 - 4x + 2 = 2(x - 1)^2$
- 13  $c^2 + 6c - 7 = (c + 7)(c - 1)$
- 14  $a^2 - 12a + 20 = (a - 10)(a - 2)$
- 15  $4a^2c^2 - 25b^2d^2 = (2ac + 5bd)(2ac - 5bd)$
  
- 16  $10xy^4 - 15xy^3 + 20xy^2 - 25xy = 5xy(2y^3 - 3y^2 + 4y - 5)$
- 17  $m(a+b) + 5(a+b) = (a+b)(m+5)$
- 18  $12ax^3 - 6a^2x^2 - 18a^3x = 6ax(2x^2 - ax - 3a^2)$
- 19  $a^2 - 2a - 3 = (a + 1)(a - 3)$
- 20  $625a^3 - 225ab^2 = 25a(5a + 3b)(5a - 3b)$
  
- 21  $a^2 + 2a - 3 = (a + 3)(a - 1)$
- 22  $a(a-x) + a-x = (a-x)(a+1)$
- 23  $16x^4 - 1 = (4x^2 + 1)(2x + 1)(2x - 1)$
- 24  $a^2 + 7a + 10 = (a + 2)(a + 5)$
- 25  $a^8 - 256 = (a^4 + 16)(a^2 + 4)(a + 2)(a - 2)$