

- 1 $a(s-t) - b(s-t) = (s-t)(a-b)$
- 2 $4m(m-n) - 3n(m-n) = (m-n)(4m-3n)$
- 3 $16my - 24ny + 18y = 2y(8m - 12n + 9)$
- 4 $9ax^3 - 12a^2x^2 - 15a^3x = 3ax(3x^2 - 4ax - 5a^2)$
- 5 $10ab - 20a^2b + 30ab^2 = 10ab(1 - 2a + 3b)$

- 6 $4x^2 + 4x + 1 = (2x + 1)^2$
- 7 $16a^2 + 24ab + 9b^2 = (4a + 3b)^2$
- 8 $16r^2 - 8r + 1 = (4r - 1)^2$
- 9 $49p^2 - 1 = (7p + 1)(7p - 1)$
- 10 $4a^2c^2 - 25b^2d^2 = (2ac + 5bd)(2ac - 5bd)$

- 11 $x^3 - 2x^2y + xy^2 = x(x-y)^2$
- 12 $ab^2 + 2ab + a = a(b+1)^2$
- 13 $a^2 + 2a - 15 = (a+5)(a-3)$
- 14 $5b^3 - 5b = 5b(b+1)(b-1)$
- 15 $m^2 + 19m + 90 = (m+10)(m+9)$

- 16 $a^3 - 19a^2 + 90a = a(a-10)(a-9)$
- 17 $2x^4 - 12x^2 - 54 = 2(x^2+3)(x+3)(x-3)$
- 18 $a^2 - a - 30 = (a+5)(a-6)$
- 19 $81x^4 - 16y^4 = (9x^2+4y^2)(3x+2y)(3x-2y)$
- 20 $c^4 - d^2 = (c^2+d)(c^2-d)$

- 21 $4a^2 - 4 = 4(a+1)(a-1)$
- 22 $x(m+n) - 7(m+n) = (m+n)(x-7)$
- 23 $25n^2 + 80mn + 64m^2 = (5n+8m)^2$
- 24 $x^4 - 2x^2 + 1 = (x^2-1)^2 = (x+1)^2(x-1)^2$
- 25 $4a^4 + 4a^2b^2 + b^4 = (2a^2 + b^2)^2$