

## بعض أشكال عملية الضرب

$$1. (a+b)^2 = a^2 + 2ab + b^2$$

مثال

$$(2H+3O)^2 = (2H)^2 + 2(2H)(3O) + (3O)^2 \\ = 4H^2 + 12HO + 9O^2$$

$$(2K+4Z)^2 = (2K)^2 + 2(2K)(4Z) + (4Z)^2 \\ = 4K^2 + 16KZ + 16Z^2$$

$$(2R+3F)^2 = (2R)^2 + 2(2R)(3F) + (3F)^2 \\ = 4R^2 + 12FR + 9F^2$$

$$2. (a-b)^2 = a^2 - 2ab + b^2$$

مثال

$$(5t-3n)^2 = (5t)^2 - 2(5t)(3n) + (3n)^2 \\ = 25t^2 - 30nt + 9n^2$$

$$(f-3j)^2 = (f)^2 - 2(f)(3j) + (3j)^2 \\ = f^2 - 6fj + 9j^2$$

$$(3t-q)^2 = (3t)^2 - 2(3t)(q) + (q)^2 \\ = 9t^2 - 6qt + q^2$$

$$3. (a+b)(a-b) = a^2 - b^2$$

مثال

$$(3S+4R)(3S-4R) = (3S)^2 - (4R)^2 \\ = 9S^2 - 16R^2$$

$$(5R+L)(5R-L) = (5R)^2 - (L)^2 \\ = 25R^2 - L^2$$

$$(3p+5y)(3p-5y) = (3p)^2 - (5y)^2 \\ = 9p^2 - 25y^2$$