

## بعض أشكال عملية الضرب

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

مثال

$$(5x+4q)^2 = (5x)^2 + 2(5x)(4q) + (4q)^2 \\ = 25x^2 + 40qx + 16q^2$$

$$(T+5V)^2 = (T)^2 + 2(T)(5V) + (5V)^2 \\ = T^2 + 10TV + 25V^2$$

$$(2v+j)^2 = (2v)^2 + 2(2v)(j) + (j)^2 \\ = 4v^2 + 4jv + j^2$$

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

مثال

$$(2s-4q)^2 = (2s)^2 - 2(2s)(4q) + (4q)^2 \\ = 4s^2 - 16qs + 16q^2$$

$$(3v-4z)^2 = (3v)^2 - 2(3v)(4z) + (4z)^2 \\ = 9v^2 - 24vz + 16z^2$$

$$(5M-4N)^2 = (5M)^2 - 2(5M)(4N) + (4N)^2 \\ = 25M^2 - 40MN + 16N^2$$

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

مثال

$$(2N+4B)(2N-4B) = (2N)^2 - (4B)^2 \\ = 4N^2 - 16B^2$$

$$(i+5s)(i-5s) = (i)^2 - (5s)^2 \\ = i^2 - 25s^2$$

$$(5v+2q)(5v-2q) = (5v)^2 - (2q)^2 \\ = 25v^2 - 4q^2$$