

## بعض أشكال عملية الضرب

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

مثال

$$(h+5p)^2 = (h)^2 + 2(h)(5p) + (5p)^2 \\ = h^2 + 10hp + 25p^2$$

$$(2u+5j)^2 = (2u)^2 + 2(2u)(5j) + (5j)^2 \\ = 4u^2 + 20ju + 25j^2$$

$$(2K+V)^2 = (2K)^2 + 2(2K)(V) + (V)^2 \\ = 4K^2 + 4KV + V^2$$

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

مثال

$$(4M-3Q)^2 = (4M)^2 - 2(4M)(3Q) + (3Q)^2 \\ = 16M^2 - 24MQ + 9Q^2$$

$$(i-2q)^2 = (i)^2 - 2(i)(2q) + (2q)^2 \\ = i^2 - 4iq + 4q^2$$

$$(4c-3k)^2 = (4c)^2 - 2(4c)(3k) + (3k)^2 \\ = 16c^2 - 24ck + 9k^2$$

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

مثال

$$(5N+3T)(5N-3T) = (5N)^2 - (3T)^2 \\ = 25N^2 - 9T^2$$

$$(2x+c)(2x-c) = (2x)^2 - (c)^2 \\ = 4x^2 - c^2$$

$$(2K+T)(2K-T) = (2K)^2 - (T)^2 \\ = 4K^2 - T^2$$