

## بعض أشكال عملية الضرب

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

مثال

$$(4o+2k)^2 = (4o)^2 + 2(4o)(2k) + (2k)^2 \\ = 16o^2 + 16ko + 4k^2$$

$$(2c+4g)^2 = (2c)^2 + 2(2c)(4g) + (4g)^2 \\ = 4c^2 + 16cg + 16g^2$$

$$(4u+z)^2 = (4u)^2 + 2(4u)(z) + (z)^2 \\ = 16u^2 + 8uz + z^2$$

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

مثال

$$(4V-K)^2 = (4V)^2 - 2(4V)(K) + (K)^2 \\ = 16V^2 - 8KV + K^2$$

$$(5w-4n)^2 = (5w)^2 - 2(5w)(4n) + (4n)^2 \\ = 25w^2 - 40nw + 16n^2$$

$$(5W-M)^2 = (5W)^2 - 2(5W)(M) + (M)^2 \\ = 25W^2 - 10MW + M^2$$

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

مثال

$$(2W+V)(2W-V) = (2W)^2 - (V)^2 \\ = 4W^2 - V^2$$

$$(u+2j)(u-2j) = (u)^2 - (2j)^2 \\ = u^2 - 4j^2$$

$$(4E+5V)(4E-5V) = (4E)^2 - (5V)^2 \\ = 16E^2 - 25V^2$$