

## بعض أشكال عملية الضرب

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

مثال

$$(a+4j)^2 = (a)^2 + 2(a)(4j) + (4j)^2 \\ = a^2 + 8aj + 16j^2$$

$$(4x+c)^2 = (4x)^2 + 2(4x)(c) + (c)^2 \\ = 16x^2 + 8cx + c^2$$

$$(y+4g)^2 = (y)^2 + 2(y)(4g) + (4g)^2 \\ = y^2 + 8gy + 16g^2$$

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

مثال

$$(3A-R)^2 = (3A)^2 - 2(3A)(R) + (R)^2 \\ = 9A^2 - 6AR + R^2$$

$$(5S-2K)^2 = (5S)^2 - 2(5S)(2K) + (2K)^2 \\ = 25S^2 - 20KS + 4K^2$$

$$(t-4h)^2 = (t)^2 - 2(t)(4h) + (4h)^2 \\ = t^2 - 8ht + 16h^2$$

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

مثال

$$(3Q+2Z)(3Q-2Z) = (3Q)^2 - (2Z)^2 \\ = 9Q^2 - 4Z^2$$

$$(Y+5Z)(Y-5Z) = (Y)^2 - (5Z)^2 \\ = Y^2 - 25Z^2$$

$$(4P+3T)(4P-3T) = (4P)^2 - (3T)^2 \\ = 16P^2 - 9T^2$$