

## بعض أشكال عملية الضرب

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

مثال

$$(H+3T)^2 = (H)^2 + 2(H)(3T) + (3T)^2 \\ = H^2 + 6HT + 9T^2$$

$$(H+5I)^2 = (H)^2 + 2(H)(5I) + (5I)^2 \\ = H^2 + 10HI + 25I^2$$

$$(2v+5i)^2 = (2v)^2 + 2(2v)(5i) + (5i)^2 \\ = 4v^2 + 20iv + 25i^2$$

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

مثال

$$(3s-5t)^2 = (3s)^2 - 2(3s)(5t) + (5t)^2 \\ = 9s^2 - 30st + 25t^2$$

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

$$(4q-3f)^2 = (4q)^2 - 2(4q)(3f) + (3f)^2 \\ = 16q^2 - 24fq + 9f^2$$

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

مثال

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

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

$$(3S+5V)(3S-5V) = (3S)^2 - (5V)^2 \\ = 9S^2 - 25V^2$$