

## بعض أشكال عملية الضرب

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

مثال

$$(2p+3j)^2 = (2p)^2 + 2(2p)(3j) + (3j)^2 \\ = 4p^2 + 12jp + 9j^2$$

$$(3Z+5G)^2 = (3Z)^2 + 2(3Z)(5G) + (5G)^2 \\ = 9Z^2 + 30GZ + 25G^2$$

$$(50+4M)^2 = (50)^2 + 2(50)(4M) + (4M)^2 \\ = 2500 + 400M + 16M^2$$

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

مثال

$$(I-4E)^2 = (I)^2 - 2(I)(4E) + (4E)^2 \\ = I^2 - 8EI + 16E^2$$

$$(3E-5I)^2 = (3E)^2 - 2(3E)(5I) + (5I)^2 \\ = 9E^2 - 30EI + 25I^2$$

$$(5r-3t)^2 = (5r)^2 - 2(5r)(3t) + (3t)^2 \\ = 25r^2 - 30rt + 9t^2$$

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

مثال

$$(2T+5C)(2T-5C) = (2T)^2 - (5C)^2 \\ = 4T^2 - 25C^2$$

$$(4H+3S)(4H-3S) = (4H)^2 - (3S)^2 \\ = 16H^2 - 9S^2$$

$$(2m+3e)(2m-3e) = (2m)^2 - (3e)^2 \\ = 4m^2 - 9e^2$$