

## بعض أشكال عملية الضرب

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

مثال

$$(3x+4p)^2 = (3x)^2 + 2(3x)(4p) + (4p)^2 \\ = 9x^2 + 24px + 16p^2$$

$$(2Y+E)^2 = (2Y)^2 + 2(2Y)(E) + (E)^2 \\ = 4Y^2 + 4EY + E^2$$

$$(3E+5L)^2 = (3E)^2 + 2(3E)(5L) + (5L)^2 \\ = 9E^2 + 30EL + 25L^2$$

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

مثال

$$(5x-e)^2 = (5x)^2 - 2(5x)(e) + (e)^2 \\ = 25x^2 - 10ex + e^2$$

$$(i-3k)^2 = (i)^2 - 2(i)(3k) + (3k)^2 \\ = i^2 - 6ik + 9k^2$$

$$(4E-Z)^2 = (4E)^2 - 2(4E)(Z) + (Z)^2 \\ = 16E^2 - 8EZ + Z^2$$

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

مثال

$$(5r+2e)(5r-2e) = (5r)^2 - (2e)^2 \\ = 25r^2 - 4e^2$$

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

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