

بعض أشكال عملية الضرب

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

مثال

$$(3u+2e)^2 = (3u)^2 + 2(3u)(2e) + (2e)^2 \\ = 9u^2 + 12eu + 4e^2$$

$$(4C+2Z)^2 = (4C)^2 + 2(4C)(2Z) + (2Z)^2 \\ = 16C^2 + 16CZ + 4Z^2$$

$$(3Z+2V)^2 = (3Z)^2 + 2(3Z)(2V) + (2V)^2 \\ = 9Z^2 + 12VZ + 4V^2$$

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

مثال

$$(M-2N)^2 = (M)^2 - 2(M)(2N) + (2N)^2 \\ = M^2 - 4MN + 4N^2$$

$$(4x-2h)^2 = (4x)^2 - 2(4x)(2h) + (2h)^2 \\ = 16x^2 - 16hx + 4h^2$$

$$(5e-4v)^2 = (5e)^2 - 2(5e)(4v) + (4v)^2 \\ = 25e^2 - 40ev + 16v^2$$

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

مثال

$$(2Z+4X)(2Z-4X) = (2Z)^2 - (4X)^2 \\ = 4Z^2 - 16X^2$$

$$(2q+4k)(2q-4k) = (2q)^2 - (4k)^2 \\ = 4q^2 - 16k^2$$

$$(4W+F)(4W-F) = (4W)^2 - (F)^2 \\ = 16W^2 - F^2$$