

بعض أشكال عملية الضرب

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

مثال

$$(2x+5w)^2 = (2x)^2 + 2(2x)(5w) + (5w)^2 \\ = 4x^2 + 20wx + 25w^2$$

$$(3h+j)^2 = (3h)^2 + 2(3h)(j) + (j)^2 \\ = 9h^2 + 6hj + j^2$$

$$(2v+3q)^2 = (2v)^2 + 2(2v)(3q) + (3q)^2 \\ = 4v^2 + 12qv + 9q^2$$

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

مثال

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

$$(3V-5N)^2 = (3V)^2 - 2(3V)(5N) + (5N)^2 \\ = 9V^2 - 30NV + 25N^2$$

$$(3D-4K)^2 = (3D)^2 - 2(3D)(4K) + (4K)^2 \\ = 9D^2 - 24DK + 16K^2$$

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

مثال

$$(5u+3n)(5u-3n) = (5u)^2 - (3n)^2 \\ = 25u^2 - 9n^2$$

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

$$(4X+5N)(4X-5N) = (4X)^2 - (5N)^2 \\ = 16X^2 - 25N^2$$