

بعض أشكال عملية الضرب

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

مثال

$$(3t+5p)^2 = (3t)^2 + 2(3t)(5p) + (5p)^2 \\ = 9t^2 + 30pt + 25p^2$$

$$(X+3N)^2 = (X)^2 + 2(X)(3N) + (3N)^2 \\ = X^2 + 6NX + 9N^2$$

$$(D+3J)^2 = (D)^2 + 2(D)(3J) + (3J)^2 \\ = D^2 + 6DJ + 9J^2$$

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

مثال

$$(2r-3x)^2 = (2r)^2 - 2(2r)(3x) + (3x)^2 \\ = 4r^2 - 12rx + 9x^2$$

$$(5j-p)^2 = (5j)^2 - 2(5j)(p) + (p)^2 \\ = 25j^2 - 10jp + p^2$$

$$(3t-2v)^2 = (3t)^2 - 2(3t)(2v) + (2v)^2 \\ = 9t^2 - 12tv + 4v^2$$

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

مثال

$$(o+5f)(o-5f) = (o)^2 - (5f)^2 \\ = o^2 - 25f^2$$

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

$$(N+2V)(N-2V) = (N)^2 - (2V)^2 \\ = N^2 - 4V^2$$