

بعض أشكال عملية الضرب

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

مثال

$$(5M+4Y)^2 = (5M)^2 + 2(5M)(4Y) + (4Y)^2 \\ = 25M^2 + 40MY + 16Y^2$$

$$(5v+2z)^2 = (5v)^2 + 2(5v)(2z) + (2z)^2 \\ = 25v^2 + 20vz + 4z^2$$

$$(3i+4t)^2 = (3i)^2 + 2(3i)(4t) + (4t)^2 \\ = 9i^2 + 24it + 16t^2$$

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

مثال

$$(2t-5s)^2 = (2t)^2 - 2(2t)(5s) + (5s)^2 \\ = 4t^2 - 20st + 25s^2$$

$$(2q-o)^2 = (2q)^2 - 2(2q)(o) + (o)^2 \\ = 4q^2 - 4oq + o^2$$

$$(4C-5T)^2 = (4C)^2 - 2(4C)(5T) + (5T)^2 \\ = 16C^2 - 40CT + 25T^2$$

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

مثال

$$(3S+5X)(3S-5X) = (3S)^2 - (5X)^2 \\ = 9S^2 - 25X^2$$

$$(G+4U)(G-4U) = (G)^2 - (4U)^2 \\ = G^2 - 16U^2$$

$$(4P+2T)(4P-2T) = (4P)^2 - (2T)^2 \\ = 16P^2 - 4T^2$$