

بعض أشكال عملية الضرب

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

مثال

$$(3g+4k)^2 = (3g)^2 + 2(3g)(4k) + (4k)^2 \\ = 9g^2 + 24gk + 16k^2$$

$$(A+5W)^2 = (A)^2 + 2(A)(5W) + (5W)^2 \\ = A^2 + 10AW + 25W^2$$

$$(c+5a)^2 = (c)^2 + 2(c)(5a) + (5a)^2 \\ = c^2 + 10ac + 25a^2$$

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

مثال

$$(2z-c)^2 = (2z)^2 - 2(2z)(c) + (c)^2 \\ = 4z^2 - 4cz + c^2$$

$$(3y-5o)^2 = (3y)^2 - 2(3y)(5o) + (5o)^2 \\ = 9y^2 - 30oy + 25o^2$$

$$(3n-4o)^2 = (3n)^2 - 2(3n)(4o) + (4o)^2 \\ = 9n^2 - 24no + 16o^2$$

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

مثال

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

$$(n+2q)(n-2q) = (n)^2 - (2q)^2 \\ = n^2 - 4q^2$$

$$(2G+5E)(2G-5E) = (2G)^2 - (5E)^2 \\ = 4G^2 - 25E^2$$