

بعض أشكال عملية الضرب

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

مثال

$$(5T + 4J)^2 = (5T)^2 + 2(5T)(4J) + (4J)^2 \\ = 25T^2 + 40JT + 16J^2$$

$$(4o + t)^2 = (4o)^2 + 2(4o)(t) + (t)^2 \\ = 16o^2 + 8ot + t^2$$

$$(3z + 4x)^2 = (3z)^2 + 2(3z)(4x) + (4x)^2 \\ = 9z^2 + 24xz + 16x^2$$

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

مثال

$$(3B - 2V)^2 = (3B)^2 - 2(3B)(2V) + (2V)^2 \\ = 9B^2 - 12BV + 4V^2$$

$$(2k - 3q)^2 = (2k)^2 - 2(2k)(3q) + (3q)^2 \\ = 4k^2 - 12kq + 9q^2$$

$$(5t - q)^2 = (5t)^2 - 2(5t)(q) + (q)^2 \\ = 25t^2 - 10qt + q^2$$

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

مثال

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

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

$$(5M + C)(5M - C) = (5M)^2 - (C)^2 \\ = 25M^2 - C^2$$