

بعض أشكال عملية الضرب

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

مثال

$$(5P + 4C)^2 = (5P)^2 + 2(5P)(4C) + (4C)^2 \\ = 25P^2 + 40CP + 16C^2$$

$$(2q + 3r)^2 = (2q)^2 + 2(2q)(3r) + (3r)^2 \\ = 4q^2 + 12qr + 9r^2$$

$$(3t + 4n)^2 = (3t)^2 + 2(3t)(4n) + (4n)^2 \\ = 9t^2 + 24nt + 16n^2$$

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

مثال

$$(C - 3Z)^2 = (C)^2 - 2(C)(3Z) + (3Z)^2 \\ = C^2 - 6CZ + 9Z^2$$

$$(5s - x)^2 = (5s)^2 - 2(5s)(x) + (x)^2 \\ = 25s^2 - 10sx + x^2$$

$$(5n - 2p)^2 = (5n)^2 - 2(5n)(2p) + (2p)^2 \\ = 25n^2 - 20np + 4p^2$$

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

مثال

$$(3J + 5V)(3J - 5V) = (3J)^2 - (5V)^2 \\ = 9J^2 - 25V^2$$

$$(2H + 3S)(2H - 3S) = (2H)^2 - (3S)^2 \\ = 4H^2 - 9S^2$$

$$(3s + 2w)(3s - 2w) = (3s)^2 - (2w)^2 \\ = 9s^2 - 4w^2$$