

بعض أشكال عملية الضرب

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

مثال

$$(J+3S)^2 = (J)^2 + 2(J)(3S) + (3S)^2 \\ = J^2 + 6JS + 9S^2$$

$$(3Q+4K)^2 = (3Q)^2 + 2(3Q)(4K) + (4K)^2 \\ = 9Q^2 + 24KQ + 16K^2$$

$$(5k+3z)^2 = (5k)^2 + 2(5k)(3z) + (3z)^2 \\ = 25k^2 + 30kz + 9z^2$$

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

مثال

$$(2p-5x)^2 = (2p)^2 - 2(2p)(5x) + (5x)^2 \\ = 4p^2 - 20px + 25x^2$$

$$(2w-4e)^2 = (2w)^2 - 2(2w)(4e) + (4e)^2 \\ = 4w^2 - 16ew + 16e^2$$

$$(3q-2x)^2 = (3q)^2 - 2(3q)(2x) + (2x)^2 \\ = 9q^2 - 12qx + 4x^2$$

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

مثال

$$(3T+2V)(3T-2V) = (3T)^2 - (2V)^2 \\ = 9T^2 - 4V^2$$

$$(2f+5v)(2f-5v) = (2f)^2 - (5v)^2 \\ = 4f^2 - 25v^2$$

$$(3R+4A)(3R-4A) = (3R)^2 - (4A)^2 \\ = 9R^2 - 16A^2$$