

بعض أشكال عملية الضرب

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

مثال

$$(4A+3U)^2 = (4A)^2 + 2(4A)(3U) + (3U)^2 \\ = 16A^2 + 24AU + 9U^2$$

$$(K+4I)^2 = (K)^2 + 2(K)(4I) + (4I)^2 \\ = K^2 + 8IK + 16I^2$$

$$(4Q+3S)^2 = (4Q)^2 + 2(4Q)(3S) + (3S)^2 \\ = 16Q^2 + 24QS + 9S^2$$

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

مثال

$$(3N-5U)^2 = (3N)^2 - 2(3N)(5U) + (5U)^2 \\ = 9N^2 - 30NU + 25U^2$$

$$(e-5c)^2 = (e)^2 - 2(e)(5c) + (5c)^2 \\ = e^2 - 10ce + 25c^2$$

$$(5A-4X)^2 = (5A)^2 - 2(5A)(4X) + (4X)^2 \\ = 25A^2 - 40AX + 16X^2$$

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

مثال

$$(2w+z)(2w-z) = (2w)^2 - (z)^2 \\ = 4w^2 - z^2$$

$$(5K+N)(5K-N) = (5K)^2 - (N)^2 \\ = 25K^2 - N^2$$

$$(5t+4y)(5t-4y) = (5t)^2 - (4y)^2 \\ = 25t^2 - 16y^2$$