

بعض أشكال عملية الضرب

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

مثال

$$(F+3N)^2 = (F)^2 + 2(F)(3N) + (3N)^2 \\ = F^2 + 6FN + 9N^2$$

$$(3v+4c)^2 = (3v)^2 + 2(3v)(4c) + (4c)^2 \\ = 9v^2 + 24cv + 16c^2$$

$$(2j+4s)^2 = (2j)^2 + 2(2j)(4s) + (4s)^2 \\ = 4j^2 + 16js + 16s^2$$

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

مثال

$$(2U-P)^2 = (2U)^2 - 2(2U)(P) + (P)^2 \\ = 4U^2 - 4PU + P^2$$

$$(5S-Q)^2 = (5S)^2 - 2(5S)(Q) + (Q)^2 \\ = 25S^2 - 10QS + Q^2$$

$$(2y-j)^2 = (2y)^2 - 2(2y)(j) + (j)^2 \\ = 4y^2 - 4jy + j^2$$

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

مثال

$$(5I+2Q)(5I-2Q) = (5I)^2 - (2Q)^2 \\ = 25I^2 - 4Q^2$$

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

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