

بعض أشكال عملية الضرب

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

مثال

$$(5R+4N)^2 = (5R)^2 + 2(5R)(4N) + (4N)^2 \\ = 25R^2 + 40NR + 16N^2$$

$$(3J+50)^2 = (3J)^2 + 2(3J)(50) + (50)^2 \\ = 9J^2 + 30J0 + 250^2$$

$$(4K+Q)^2 = (4K)^2 + 2(4K)(Q) + (Q)^2 \\ = 16K^2 + 8KQ + Q^2$$

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

مثال

$$(4v-5r)^2 = (4v)^2 - 2(4v)(5r) + (5r)^2 \\ = 16v^2 - 40rv + 25r^2$$

$$(4p-5m)^2 = (4p)^2 - 2(4p)(5m) + (5m)^2 \\ = 16p^2 - 40mp + 25m^2$$

$$(5b-q)^2 = (5b)^2 - 2(5b)(q) + (q)^2 \\ = 25b^2 - 10bq + q^2$$

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

مثال

$$(4E+L)(4E-L) = (4E)^2 - (L)^2 \\ = 16E^2 - L^2$$

$$(2S+4Y)(2S-4Y) = (2S)^2 - (4Y)^2 \\ = 4S^2 - 16Y^2$$

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