

بعض أشكال عملية الضرب

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

مثال

$$(4E+N)^2 = (4E)^2 + 2(4E)(N) + (N)^2 \\ = 16E^2 + 8EN + N^2$$

$$(r+3g)^2 = (r)^2 + 2(r)(3g) + (3g)^2 \\ = r^2 + 6gr + 9g^2$$

$$(4n+3v)^2 = (4n)^2 + 2(4n)(3v) + (3v)^2 \\ = 16n^2 + 24nv + 9v^2$$

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

مثال

$$(2v-5x)^2 = (2v)^2 - 2(2v)(5x) + (5x)^2 \\ = 4v^2 - 20vx + 25x^2$$

$$(4M-5E)^2 = (4M)^2 - 2(4M)(5E) + (5E)^2 \\ = 16M^2 - 40EM + 25E^2$$

$$(4Q-2M)^2 = (4Q)^2 - 2(4Q)(2M) + (2M)^2 \\ = 16Q^2 - 16MQ + 4M^2$$

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

مثال

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

$$(4r+3h)(4r-3h) = (4r)^2 - (3h)^2 \\ = 16r^2 - 9h^2$$

$$(5Y+4R)(5Y-4R) = (5Y)^2 - (4R)^2 \\ = 25Y^2 - 16R^2$$