

بعض أشكال عملية الضرب

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

مثال

$$(3N + 2J)^2 = (3N)^2 + 2(3N)(2J) + (2J)^2 \\ = 9N^2 + 12JN + 4J^2$$

$$(5G + 2N)^2 = (5G)^2 + 2(5G)(2N) + (2N)^2 \\ = 25G^2 + 20GN + 4N^2$$

$$(2y + 3m)^2 = (2y)^2 + 2(2y)(3m) + (3m)^2 \\ = 4y^2 + 12my + 9m^2$$

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

مثال

$$(4t - 5x)^2 = (4t)^2 - 2(4t)(5x) + (5x)^2 \\ = 16t^2 - 40tx + 25x^2$$

$$(4d - 5n)^2 = (4d)^2 - 2(4d)(5n) + (5n)^2 \\ = 16d^2 - 40dn + 25n^2$$

$$(5C - 2M)^2 = (5C)^2 - 2(5C)(2M) + (2M)^2 \\ = 25C^2 - 20CM + 4M^2$$

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

مثال

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

$$(2X + 5T)(2X - 5T) = (2X)^2 - (5T)^2 \\ = 4X^2 - 25T^2$$

$$(4N + 2B)(4N - 2B) = (4N)^2 - (2B)^2 \\ = 16N^2 - 4B^2$$