

بعض أشكال عملية الضرب

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

مثال

$$(5G + 3S)^2 = (5G)^2 + 2(5G)(3S) + (3S)^2 \\ = 25G^2 + 30GS + 9S^2$$

$$(3c + n)^2 = (3c)^2 + 2(3c)(n) + (n)^2 \\ = 9c^2 + 6cn + n^2$$

$$(J + 4K)^2 = (J)^2 + 2(J)(4K) + (4K)^2 \\ = J^2 + 8JK + 16K^2$$

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

مثال

$$(i - 5z)^2 = (i)^2 - 2(i)(5z) + (5z)^2 \\ = i^2 - 10iz + 25z^2$$

$$(4q - 5d)^2 = (4q)^2 - 2(4q)(5d) + (5d)^2 \\ = 16q^2 - 40dq + 25d^2$$

$$(3u - 5s)^2 = (3u)^2 - 2(3u)(5s) + (5s)^2 \\ = 9u^2 - 30su + 25s^2$$

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

مثال

$$(5x + 3s)(5x - 3s) = (5x)^2 - (3s)^2 \\ = 25x^2 - 9s^2$$

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

$$(g + 5f)(g - 5f) = (g)^2 - (5f)^2 \\ = g^2 - 25f^2$$