

بعض أشكال عملية الضرب

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

مثال

$$(5e+d)^2 = (5e)^2 + 2(5e)(d) + (d)^2 \\ = 25e^2 + 10de + d^2$$

$$(3U+2N)^2 = (3U)^2 + 2(3U)(2N) + (2N)^2 \\ = 9U^2 + 12NU + 4N^2$$

$$(C+2G)^2 = (C)^2 + 2(C)(2G) + (2G)^2 \\ = C^2 + 4CG + 4G^2$$

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

مثال

$$(3z-5y)^2 = (3z)^2 - 2(3z)(5y) + (5y)^2 \\ = 9z^2 - 30yz + 25y^2$$

$$(2M-U)^2 = (2M)^2 - 2(2M)(U) + (U)^2 \\ = 4M^2 - 4MU + U^2$$

$$(2n-5t)^2 = (2n)^2 - 2(2n)(5t) + (5t)^2 \\ = 4n^2 - 20nt + 25t^2$$

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

مثال

$$(4I+5B)(4I-5B) = (4I)^2 - (5B)^2 \\ = 16I^2 - 25B^2$$

$$(2j+h)(2j-h) = (2j)^2 - (h)^2 \\ = 4j^2 - h^2$$

$$(3u+4a)(3u-4a) = (3u)^2 - (4a)^2 \\ = 9u^2 - 16a^2$$