

بعض أشكال عملية الضرب

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

مثال

$$(4M+X)^2 = (4M)^2 + 2(4M)(X) + (X)^2 \\ = 16M^2 + 8MX + X^2$$

$$(e+5h)^2 = (e)^2 + 2(e)(5h) + (5h)^2 \\ = e^2 + 10eh + 25h^2$$

$$(4I+3J)^2 = (4I)^2 + 2(4I)(3J) + (3J)^2 \\ = 16I^2 + 24IJ + 9J^2$$

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

مثال

$$(3R-4N)^2 = (3R)^2 - 2(3R)(4N) + (4N)^2 \\ = 9R^2 - 24NR + 16N^2$$

$$(4u-2w)^2 = (4u)^2 - 2(4u)(2w) + (2w)^2 \\ = 16u^2 - 16uw + 4w^2$$

$$(X-3A)^2 = (X)^2 - 2(X)(3A) + (3A)^2 \\ = X^2 - 6AX + 9A^2$$

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

مثال

$$(5h+4z)(5h-4z) = (5h)^2 - (4z)^2 \\ = 25h^2 - 16z^2$$

$$(2U+4W)(2U-4W) = (2U)^2 - (4W)^2 \\ = 4U^2 - 16W^2$$

$$(2r+k)(2r-k) = (2r)^2 - (k)^2 \\ = 4r^2 - k^2$$