

بعض أشكال عملية الضرب

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

مثال

$$(5j+t)^2 = (5j)^2 + 2(5j)(t) + (t)^2 \\ = 25j^2 + 10jt + t^2$$

$$(3w+5n)^2 = (3w)^2 + 2(3w)(5n) + (5n)^2 \\ = 9w^2 + 30nw + 25n^2$$

$$(2b+5r)^2 = (2b)^2 + 2(2b)(5r) + (5r)^2 \\ = 4b^2 + 20br + 25r^2$$

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

مثال

$$(4b-2r)^2 = (4b)^2 - 2(4b)(2r) + (2r)^2 \\ = 16b^2 - 16br + 4r^2$$

$$(3U-2K)^2 = (3U)^2 - 2(3U)(2K) + (2K)^2 \\ = 9U^2 - 12KU + 4K^2$$

$$(5N-Q)^2 = (5N)^2 - 2(5N)(Q) + (Q)^2 \\ = 25N^2 - 10NQ + Q^2$$

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

مثال

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

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

$$(3U+4M)(3U-4M) = (3U)^2 - (4M)^2 \\ = 9U^2 - 16M^2$$