

بعض أشكال عملية الضرب

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

مثال

$$(K+2N)^2 = (K)^2 + 2(K)(2N) + (2N)^2 \\ = K^2 + 4KN + 4N^2$$

$$(4Z+2H)^2 = (4Z)^2 + 2(4Z)(2H) + (2H)^2 \\ = 16Z^2 + 16HZ + 4H^2$$

$$(3U+5T)^2 = (3U)^2 + 2(3U)(5T) + (5T)^2 \\ = 9U^2 + 30TU + 25T^2$$

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

مثال

$$(4N-3D)^2 = (4N)^2 - 2(4N)(3D) + (3D)^2 \\ = 16N^2 - 24DN + 9D^2$$

$$(4j-2c)^2 = (4j)^2 - 2(4j)(2c) + (2c)^2 \\ = 16j^2 - 16cj + 4c^2$$

$$(4Z-2R)^2 = (4Z)^2 - 2(4Z)(2R) + (2R)^2 \\ = 16Z^2 - 16RZ + 4R^2$$

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

مثال

$$(2L+3F)(2L-3F) = (2L)^2 - (3F)^2 \\ = 4L^2 - 9F^2$$

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

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