

بعض أشكال عملية الضرب

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

مثال

$$(2L + 5Z)^2 = (2L)^2 + 2(2L)(5Z) + (5Z)^2 \\ = 4L^2 + 20LZ + 25Z^2$$

$$(s + 3p)^2 = (s)^2 + 2(s)(3p) + (3p)^2 \\ = s^2 + 6ps + 9p^2$$

$$(g + 3e)^2 = (g)^2 + 2(g)(3e) + (3e)^2 \\ = g^2 + 6eg + 9e^2$$

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

مثال

$$(2p - 5t)^2 = (2p)^2 - 2(2p)(5t) + (5t)^2 \\ = 4p^2 - 20pt + 25t^2$$

$$(3U - Y)^2 = (3U)^2 - 2(3U)(Y) + (Y)^2 \\ = 9U^2 - 6UY + Y^2$$

$$(2b - 5j)^2 = (2b)^2 - 2(2b)(5j) + (5j)^2 \\ = 4b^2 - 20bj + 25j^2$$

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

مثال

$$(k + 5a)(k - 5a) = (k)^2 - (5a)^2 \\ = k^2 - 25a^2$$

$$(3j + 0)(3j - 0) = (3j)^2 - (0)^2 \\ = 9j^2 - 0^2$$

$$(5C + 4N)(5C - 4N) = (5C)^2 - (4N)^2 \\ = 25C^2 - 16N^2$$