

بعض أشكال عملية الضرب

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

مثال

$$(5B+P)^2 = (5B)^2 + 2(5B)(P) + (P)^2 \\ = 25B^2 + 10BP + P^2$$

$$(2t+4f)^2 = (2t)^2 + 2(2t)(4f) + (4f)^2 \\ = 4t^2 + 16ft + 16f^2$$

$$(5t+2j)^2 = (5t)^2 + 2(5t)(2j) + (2j)^2 \\ = 25t^2 + 20jt + 4j^2$$

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

مثال

$$(3b-5j)^2 = (3b)^2 - 2(3b)(5j) + (5j)^2 \\ = 9b^2 - 30bj + 25j^2$$

$$(t-4c)^2 = (t)^2 - 2(t)(4c) + (4c)^2 \\ = t^2 - 8ct + 16c^2$$

$$(4M-5D)^2 = (4M)^2 - 2(4M)(5D) + (5D)^2 \\ = 16M^2 - 40DM + 25D^2$$

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

مثال

$$(y+3e)(y-3e) = (y)^2 - (3e)^2 \\ = y^2 - 9e^2$$

$$(5t+3o)(5t-3o) = (5t)^2 - (3o)^2 \\ = 25t^2 - 9o^2$$

$$(3I+5M)(3I-5M) = (3I)^2 - (5M)^2 \\ = 9I^2 - 25M^2$$