

بعض أشكال عملية الضرب

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

مثال

$$(B+5T)^2 = (B)^2 + 2(B)(5T) + (5T)^2 \\ = B^2 + 10BT + 25T^2$$

$$(p+3j)^2 = (p)^2 + 2(p)(3j) + (3j)^2 \\ = p^2 + 6jp + 9j^2$$

$$(c+2e)^2 = (c)^2 + 2(c)(2e) + (2e)^2 \\ = c^2 + 4ce + 4e^2$$

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

مثال

$$(2t-3i)^2 = (2t)^2 - 2(2t)(3i) + (3i)^2 \\ = 4t^2 - 12it + 9i^2$$

$$(2K-3E)^2 = (2K)^2 - 2(2K)(3E) + (3E)^2 \\ = 4K^2 - 12EK + 9E^2$$

$$(4v-2b)^2 = (4v)^2 - 2(4v)(2b) + (2b)^2 \\ = 16v^2 - 16bv + 4b^2$$

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

مثال

$$(5U+2P)(5U-2P) = (5U)^2 - (2P)^2 \\ = 25U^2 - 4P^2$$

$$(4b+3w)(4b-3w) = (4b)^2 - (3w)^2 \\ = 16b^2 - 9w^2$$

$$(4N+2H)(4N-2H) = (4N)^2 - (2H)^2 \\ = 16N^2 - 4H^2$$