

بعض أشكال عملية الضرب

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

مثال

$$(d+3i)^2 = (d)^2 + 2(d)(3i) + (3i)^2 \\ = d^2 + 6di + 9i^2$$

$$(3q+2b)^2 = (3q)^2 + 2(3q)(2b) + (2b)^2 \\ = 9q^2 + 12bq + 4b^2$$

$$(2b+4k)^2 = (2b)^2 + 2(2b)(4k) + (4k)^2 \\ = 4b^2 + 16bk + 16k^2$$

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

مثال

$$(4j-m)^2 = (4j)^2 - 2(4j)(m) + (m)^2 \\ = 16j^2 - 8jm + m^2$$

$$(k-5j)^2 = (k)^2 - 2(k)(5j) + (5j)^2 \\ = k^2 - 10jk + 25j^2$$

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

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

مثال

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

$$(2Y+K)(2Y-K) = (2Y)^2 - (K)^2 \\ = 4Y^2 - K^2$$

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