

بعض أشكال عملية الضرب

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

مثال

$$(4f+2j)^2 = (4f)^2 + 2(4f)(2j) + (2j)^2 \\ = 16f^2 + 16fj + 4j^2$$

$$(t+3r)^2 = (t)^2 + 2(t)(3r) + (3r)^2 \\ = t^2 + 6rt + 9r^2$$

$$(3X+50)^2 = (3X)^2 + 2(3X)(50) + (50)^2 \\ = 9X^2 + 300X + 2500$$

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

مثال

$$(W-4Z)^2 = (W)^2 - 2(W)(4Z) + (4Z)^2 \\ = W^2 - 8WZ + 16Z^2$$

$$(q-3j)^2 = (q)^2 - 2(q)(3j) + (3j)^2 \\ = q^2 - 6jq + 9j^2$$

$$(5T-2R)^2 = (5T)^2 - 2(5T)(2R) + (2R)^2 \\ = 25T^2 - 20RT + 4R^2$$

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

مثال

$$(3a+5x)(3a-5x) = (3a)^2 - (5x)^2 \\ = 9a^2 - 25x^2$$

$$(2P+G)(2P-G) = (2P)^2 - (G)^2 \\ = 4P^2 - G^2$$

$$(J+5F)(J-5F) = (J)^2 - (5F)^2 \\ = J^2 - 25F^2$$