

بعض أشكال عملية الضرب

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

مثال

$$(2X+4A)^2 = (2X)^2 + 2(2X)(4A) + (4A)^2 \\ = 4X^2 + 16AX + 16A^2$$

$$(4A+2X)^2 = (4A)^2 + 2(4A)(2X) + (2X)^2 \\ = 16A^2 + 16AX + 4X^2$$

$$(3Q+A)^2 = (3Q)^2 + 2(3Q)(A) + (A)^2 \\ = 9Q^2 + 6AQ + A^2$$

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

مثال

$$(5y-4d)^2 = (5y)^2 - 2(5y)(4d) + (4d)^2 \\ = 25y^2 - 40dy + 16d^2$$

$$(4D-J)^2 = (4D)^2 - 2(4D)(J) + (J)^2 \\ = 16D^2 - 8DJ + J^2$$

$$(s-4q)^2 = (s)^2 - 2(s)(4q) + (4q)^2 \\ = s^2 - 8qs + 16q^2$$

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

مثال

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

$$(4a+i)(4a-i) = (4a)^2 - (i)^2 \\ = 16a^2 - i^2$$

$$(I+5Y)(I-5Y) = (I)^2 - (5Y)^2 \\ = I^2 - 25Y^2$$