

## بعض أشكال عملية الضرب

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

مثال

$$(4Y+3C)^2 = (4Y)^2 + 2(4Y)(3C) + (3C)^2 \\ = 16Y^2 + 24CY + 9C^2$$

$$(B+2X)^2 = (B)^2 + 2(B)(2X) + (2X)^2 \\ = B^2 + 4BX + 4X^2$$

$$(5B+2H)^2 = (5B)^2 + 2(5B)(2H) + (2H)^2 \\ = 25B^2 + 20BH + 4H^2$$

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

مثال

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

$$(4Q-T)^2 = (4Q)^2 - 2(4Q)(T) + (T)^2 \\ = 16Q^2 - 8QT + T^2$$

$$(5I-3K)^2 = (5I)^2 - 2(5I)(3K) + (3K)^2 \\ = 25I^2 - 30IK + 9K^2$$

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

مثال

$$(4o+2u)(4o-2u) = (4o)^2 - (2u)^2 \\ = 16o^2 - 4u^2$$

$$(2n+3x)(2n-3x) = (2n)^2 - (3x)^2 \\ = 4n^2 - 9x^2$$

$$(4f+2p)(4f-2p) = (4f)^2 - (2p)^2 \\ = 16f^2 - 4p^2$$