

بعض أشكال عملية الضرب

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

مثال

$$(j+3k)^2 = (j)^2 + 2(j)(3k) + (3k)^2 \\ = j^2 + 6jk + 9k^2$$

$$(t+5q)^2 = (t)^2 + 2(t)(5q) + (5q)^2 \\ = t^2 + 10qt + 25q^2$$

$$(5X+2J)^2 = (5X)^2 + 2(5X)(2J) + (2J)^2 \\ = 25X^2 + 20JX + 4J^2$$

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

مثال

$$(2W-D)^2 = (2W)^2 - 2(2W)(D) + (D)^2 \\ = 4W^2 - 4DW + D^2$$

$$(3x-5y)^2 = (3x)^2 - 2(3x)(5y) + (5y)^2 \\ = 9x^2 - 30xy + 25y^2$$

$$(3L-A)^2 = (3L)^2 - 2(3L)(A) + (A)^2 \\ = 9L^2 - 6AL + A^2$$

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

مثال

$$(a+5q)(a-5q) = (a)^2 - (5q)^2 \\ = a^2 - 25q^2$$

$$(4Q+2X)(4Q-2X) = (4Q)^2 - (2X)^2 \\ = 16Q^2 - 4X^2$$

$$(4f+5c)(4f-5c) = (4f)^2 - (5c)^2 \\ = 16f^2 - 25c^2$$