

بعض أشكال عملية الضرب

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

مثال

$$(4e+5s)^2 = (4e)^2 + 2(4e)(5s) + (5s)^2 \\ = 16e^2 + 40es + 25s^2$$

$$(X+3Q)^2 = (X)^2 + 2(X)(3Q) + (3Q)^2 \\ = X^2 + 6QX + 9Q^2$$

$$(2y+3a)^2 = (2y)^2 + 2(2y)(3a) + (3a)^2 \\ = 4y^2 + 12ay + 9a^2$$

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

مثال

$$(4c-3s)^2 = (4c)^2 - 2(4c)(3s) + (3s)^2 \\ = 16c^2 - 24cs + 9s^2$$

$$(4J-5L)^2 = (4J)^2 - 2(4J)(5L) + (5L)^2 \\ = 16J^2 - 40JL + 25L^2$$

$$(2p-5j)^2 = (2p)^2 - 2(2p)(5j) + (5j)^2 \\ = 4p^2 - 20jp + 25j^2$$

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

مثال

$$(2Z+3G)(2Z-3G) = (2Z)^2 - (3G)^2 \\ = 4Z^2 - 9G^2$$

$$(2Z+5H)(2Z-5H) = (2Z)^2 - (5H)^2 \\ = 4Z^2 - 25H^2$$

$$(5j+4b)(5j-4b) = (5j)^2 - (4b)^2 \\ = 25j^2 - 16b^2$$