

بعض أشكال عملية الضرب

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

مثال

$$(c+5e)^2 = (c)^2 + 2(c)(5e) + (5e)^2 \\ = c^2 + 10ce + 25e^2$$

$$(2t+3e)^2 = (2t)^2 + 2(2t)(3e) + (3e)^2 \\ = 4t^2 + 12et + 9e^2$$

$$(4c+b)^2 = (4c)^2 + 2(4c)(b) + (b)^2 \\ = 16c^2 + 8bc + b^2$$

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

مثال

$$(2N-4C)^2 = (2N)^2 - 2(2N)(4C) + (4C)^2 \\ = 4N^2 - 16CN + 16C^2$$

$$(2r-4z)^2 = (2r)^2 - 2(2r)(4z) + (4z)^2 \\ = 4r^2 - 16rz + 16z^2$$

$$(4I-5S)^2 = (4I)^2 - 2(4I)(5S) + (5S)^2 \\ = 16I^2 - 40IS + 25S^2$$

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

مثال

$$(2o+3i)(2o-3i) = (2o)^2 - (3i)^2 \\ = 4o^2 - 9i^2$$

$$(4z+2m)(4z-2m) = (4z)^2 - (2m)^2 \\ = 16z^2 - 4m^2$$

$$(5F+3X)(5F-3X) = (5F)^2 - (3X)^2 \\ = 25F^2 - 9X^2$$