بعض أشكال عملية الضرب

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

مثال

$(2r+5i)^2 = (2r)^2+2(2r)(5i)+(5i)^2$
$=4r^2+20ir+25i^2$

$(Z+5T)^2 = (Z)^2+2(Z)(5T)+(5T)^2$
$=Z^2+10TZ+25T^2$

$(5q+4n)^2 = (5q)^2+2(5q)(4n)+(4n)^2$
$=25q^2+40nq+16n^2$

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

مثال

$(2p-5r)^2 = (2p)^2 -2(2p)(5r)+(5r)^2$
$=4p^2-20pr+25r^2$

$(5e-m)^2 = (5e)^2 -2(5e)(m)+(m)^2$
$=25e^2-10em+m^2$

$(2C-5X)^2 = (2C)^2 -2(2C)(5X)+(5X)^2$
$=4C^2-20CX+25X^2$

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

مثال

$(Q+3D)(Q-3D) = (Q)^2 - (3D)^2$
$=Q^2-9D^2$

$(5b+2z)(5b-2z) = (5b)^2 - (2z)^2$
$=25b^2-4z^2$

$(4x+3b)(4x-3b) = (4x)^2 - (3b)^2$
$=16x^2-9b^2$