بعض أشكال عملية الضرب

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

مثال

$(4I+2X)^2 = (4I)^2+2(4I)(2X)+(2X)^2$
$=16I^2+16IX+4X^2$

$(3x+2r)^2 = (3x)^2+2(3x)(2r)+(2r)^2$
$=9x^2+12rx+4r^2$

$(2I+5T)^2 = (2I)^2+2(2I)(5T)+(5T)^2$
$=4I^2+20IT+25T^2$

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

مثال

$(4A-T)^2 = (4A)^2 -2(4A)(T)+(T)^2$
$=16A^2-8AT+T^2$

$(4R-P)^2 = (4R)^2 -2(4R)(P)+(P)^2$
$=16R^2-8PR+P^2$

$(4d-2i)^2 = (4d)^2 -2(4d)(2i)+(2i)^2$
$=16d^2-16di+4i^2$

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

مثال

$(G+5Y)(G-5Y) = (G)^2 - (5Y)^2$
$=G^2-25Y^2$

$(4u+2w)(4u-2w) = (4u)^2 - (2w)^2$
$=16u^2-4w^2$

$(t+4v)(t-4v) = (t)^2 - (4v)^2$
$=t^2-16v^2$