بعض أشكال عملية الضرب

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

مثال

$(2X+4A)^2 = (2X)^2+2(2X)(4A)+(4A)^2$
$=4X^2+16AX+16A^2$

$(3L+2U)^2 = (3L)^2+2(3L)(2U)+(2U)^2$
$=9L^2+12LU+4U^2$

$(2X+0)^2 = (2X)^2+2(2X)(0)+(0)^2$
$=4X^2+40X+0^2$

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

مثال

$(D-5E)^2 = (D)^2 -2(D)(5E)+(5E)^2$
$=D^2-10DE+25E^2$

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

$(3D-4M)^2 = (3D)^2 -2(3D)(4M)+(4M)^2$
$=9D^2-24DM+16M^2$

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

مثال

$(3k+4d)(3k-4d) = (3k)^2 - (4d)^2$
$=9k^2-16d^2$

$(4f+m)(4f-m) = (4f)^2 - (m)^2$
$=16f^2-m^2$

$(4e+2y)(4e-2y) = (4e)^2 - (2y)^2$
$=16e^2-4y^2$