بعض أشكال عملية الضرب

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

مثال

$(4\,i+2\,n)^2 = (4\,i)^2+2\,(4\,i)\,(2\,n)+(2\,n)^2$
$=16\,i^2+16\,i\,n+4\,n^2$

$(3\,i+5\,p)^2 = (3\,i)^2+2\,(3\,i)\,(5\,p)+(5\,p)^2$
$=9\,i^2+30\,i\,p+25\,p^2$

$(j+2\,t)^2 = (j)^2+2\,(j)\,(2\,t)+(2\,t)^2$
$=j^2+4\,j\,t+4\,t^2$

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

مثال

$(5\,z-2\,e)^2 = (5\,z)^2 - 2\,(5\,z)\,(2\,e)+(2\,e)^2$
$=25\,z^2-20\,e\,z+4\,e^2$

$(5\,T-4\,G)^2 = (5\,T)^2 - 2\,(5\,T)\,(4\,G)+(4\,G)^2$
$=25\,T^2-40\,G\,T+16\,G^2$

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

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

مثال

$(H+2\,X)\,(H-2\,X) = (H)^2 - (2\,X)^2$
$=H^2-4\,X^2$

$(3\,D+2\,Q)\,(3\,D-2\,Q) = (3\,D)^2 - (2\,Q)^2$
$=9\,D^2-4\,Q^2$

$(5\,I+3\,Y)\,(5\,I-3\,Y) = (5\,I)^2 - (3\,Y)^2$
$=25\,I^2-9\,Y^2$