بعض أشكال عملية الضرب

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

مثال

$(2\,G+5\,L)^2 = (2\,G)^2 + 2\,(2\,G)\,(5\,L) + (5\,L)^2$
$= 4\,G^2+20\,G\,L+25\,L^2$

$(4\,f+5\,b)^2 = (4\,f)^2 + 2\,(4\,f)\,(5\,b) + (5\,b)^2$
$= 16\,f^2+40\,b\,f+25\,b^2$

$(4\,u+s)^2 = (4\,u)^2 + 2\,(4\,u)\,(s) + (s)^2$
$= 16\,u^2+8\,s\,u+s^2$

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

مثال

$(5\,A-S)^2 = (5\,A)^2 \; -2\,(5\,A)\,(S) + (S)^2$
$= 25\,A^2-10\,A\,S+S^2$

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

$(2\,T-5\,V)^2 = (2\,T)^2 \; -2\,(2\,T)\,(5\,V) + (5\,V)^2$
$= 4\,T^2-20\,T\,V+25\,V^2$

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

مثال

$(5\,j+4\,y)\,(5\,j-4\,y) = (5\,j)^2 \; - \; (4\,y)^2$
$= 25\,j^2-16\,y^2$

$(5\,s+4\,i)\,(5\,s-4\,i) = (5\,s)^2 \; - \; (4\,i)^2$
$= 25\,s^2-16\,i^2$

$(w+5\,g)\,(w-5\,g) = (w)^2 \; - \; (5\,g)^2$
$= w^2-25\,g^2$