

بعض أشكال عملية الضرب

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

مثال

$$(3x+2o)^2 = (3x)^2 + 2(3x)(2o) + (2o)^2 \\ = 9x^2 + 12ox + 4o^2$$

$$(2I+4J)^2 = (2I)^2 + 2(2I)(4J) + (4J)^2 \\ = 4I^2 + 16IJ + 16J^2$$

$$(3u+q)^2 = (3u)^2 + 2(3u)(q) + (q)^2 \\ = 9u^2 + 6qu + q^2$$

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

مثال

$$(4o-3z)^2 = (4o)^2 - 2(4o)(3z) + (3z)^2 \\ = 16o^2 - 24oz + 9z^2$$

$$(d-3z)^2 = (d)^2 - 2(d)(3z) + (3z)^2 \\ = d^2 - 6dz + 9z^2$$

$$(F-3G)^2 = (F)^2 - 2(F)(3G) + (3G)^2 \\ = F^2 - 6FG + 9G^2$$

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

مثال

$$(4B+5K)(4B-5K) = (4B)^2 - (5K)^2 \\ = 16B^2 - 25K^2$$

$$(5K+2Z)(5K-2Z) = (5K)^2 - (2Z)^2 \\ = 25K^2 - 4Z^2$$

$$(Z+4W)(Z-4W) = (Z)^2 - (4W)^2 \\ = Z^2 - 16W^2$$