

## بعض أشكال عملية الضرب

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

مثال

$$(3n+o)^2 = (3n)^2 + 2(3n)(o) + (o)^2 \\ = 9n^2 + 6no + o^2$$

$$(2o+4x)^2 = (2o)^2 + 2(2o)(4x) + (4x)^2 \\ = 4o^2 + 16ox + 16x^2$$

$$(2w+p)^2 = (2w)^2 + 2(2w)(p) + (p)^2 \\ = 4w^2 + 4pw + p^2$$

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

مثال

$$(4b-5v)^2 = (4b)^2 - 2(4b)(5v) + (5v)^2 \\ = 16b^2 - 40bv + 25v^2$$

$$(m-4z)^2 = (m)^2 - 2(m)(4z) + (4z)^2 \\ = m^2 - 8mz + 16z^2$$

$$(3Q-5Z)^2 = (3Q)^2 - 2(3Q)(5Z) + (5Z)^2 \\ = 9Q^2 - 30QZ + 25Z^2$$

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

مثال

$$(4N+2J)(4N-2J) = (4N)^2 - (2J)^2 \\ = 16N^2 - 4J^2$$

$$(Y+4G)(Y-4G) = (Y)^2 - (4G)^2 \\ = Y^2 - 16G^2$$

$$(3A+2H)(3A-2H) = (3A)^2 - (2H)^2 \\ = 9A^2 - 4H^2$$