

## بعض أشكال عملية الضرب

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

مثال

$$(z+5t)^2 = (z)^2 + 2(z)(5t) + (5t)^2 \\ = z^2 + 10tz + 25t^2$$

$$(2g+4p)^2 = (2g)^2 + 2(2g)(4p) + (4p)^2 \\ = 4g^2 + 16gp + 16p^2$$

$$(i+5t)^2 = (i)^2 + 2(i)(5t) + (5t)^2 \\ = i^2 + 10it + 25t^2$$

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

مثال

$$(5S-J)^2 = (5S)^2 - 2(5S)(J) + (J)^2 \\ = 25S^2 - 10JS + J^2$$

$$(2Y-5Q)^2 = (2Y)^2 - 2(2Y)(5Q) + (5Q)^2 \\ = 4Y^2 - 20QY + 25Q^2$$

$$(2Y-3Z)^2 = (2Y)^2 - 2(2Y)(3Z) + (3Z)^2 \\ = 4Y^2 - 12YZ + 9Z^2$$

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

مثال

$$(5F+D)(5F-D) = (5F)^2 - (D)^2 \\ = 25F^2 - D^2$$

$$(3v+u)(3v-u) = (3v)^2 - (u)^2 \\ = 9v^2 - u^2$$

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