

## بعض أشكال عملية الضرب

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

مثال

$$(i+5s)^2 = (i)^2 + 2(i)(5s) + (5s)^2 \\ = i^2 + 10is + 25s^2$$

$$(5q+4w)^2 = (5q)^2 + 2(5q)(4w) + (4w)^2 \\ = 25q^2 + 40qw + 16w^2$$

$$(5o+f)^2 = (5o)^2 + 2(5o)(f) + (f)^2 \\ = 25o^2 + 10fo + f^2$$

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

مثال

$$(5G-4Z)^2 = (5G)^2 - 2(5G)(4Z) + (4Z)^2 \\ = 25G^2 - 40GZ + 16Z^2$$

$$(4B-5S)^2 = (4B)^2 - 2(4B)(5S) + (5S)^2 \\ = 16B^2 - 40BS + 25S^2$$

$$(z-3v)^2 = (z)^2 - 2(z)(3v) + (3v)^2 \\ = z^2 - 6vz + 9v^2$$

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

مثال

$$(k+3j)(k-3j) = (k)^2 - (3j)^2 \\ = k^2 - 9j^2$$

$$(2P+E)(2P-E) = (2P)^2 - (E)^2 \\ = 4P^2 - E^2$$

$$(f+3y)(f-3y) = (f)^2 - (3y)^2 \\ = f^2 - 9y^2$$