

## بعض أشكال عملية الضرب

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

مثال

$$(2L + 3A)^2 = (2L)^2 + 2(2L)(3A) + (3A)^2 \\ = 4L^2 + 12AL + 9A^2$$

$$(5q + 4s)^2 = (5q)^2 + 2(5q)(4s) + (4s)^2 \\ = 25q^2 + 40qs + 16s^2$$

$$(4d + f)^2 = (4d)^2 + 2(4d)(f) + (f)^2 \\ = 16d^2 + 8df + f^2$$

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

مثال

$$(k - 2x)^2 = (k)^2 - 2(k)(2x) + (2x)^2 \\ = k^2 - 4kx + 4x^2$$

$$(M - 3Z)^2 = (M)^2 - 2(M)(3Z) + (3Z)^2 \\ = M^2 - 6MZ + 9Z^2$$

$$(5c - e)^2 = (5c)^2 - 2(5c)(e) + (e)^2 \\ = 25c^2 - 10ce + e^2$$

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

مثال

$$(h + 4q)(h - 4q) = (h)^2 - (4q)^2 \\ = h^2 - 16q^2$$

$$(4W + 3X)(4W - 3X) = (4W)^2 - (3X)^2 \\ = 16W^2 - 9X^2$$

$$(2h + 4g)(2h - 4g) = (2h)^2 - (4g)^2 \\ = 4h^2 - 16g^2$$