

## بعض أشكال عملية الضرب

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

مثال

$$(4M+3X)^2 = (4M)^2 + 2(4M)(3X) + (3X)^2 \\ = 16M^2 + 24MX + 9X^2$$

$$(2x+4v)^2 = (2x)^2 + 2(2x)(4v) + (4v)^2 \\ = 4x^2 + 16vx + 16v^2$$

$$(3C+2L)^2 = (3C)^2 + 2(3C)(2L) + (2L)^2 \\ = 9C^2 + 12CL + 4L^2$$

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

مثال

$$(3b-5x)^2 = (3b)^2 - 2(3b)(5x) + (5x)^2 \\ = 9b^2 - 30bx + 25x^2$$

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

$$(j-2r)^2 = (j)^2 - 2(j)(2r) + (2r)^2 \\ = j^2 - 4jr + 4r^2$$

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

مثال

$$(4K+F)(4K-F) = (4K)^2 - (F)^2 \\ = 16K^2 - F^2$$

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

$$(2z+p)(2z-p) = (2z)^2 - (p)^2 \\ = 4z^2 - p^2$$