

## بعض أشكال عملية الضرب

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

مثال

$$(5x+r)^2 = (5x)^2 + 2(5x)(r) + (r)^2 \\ = 25x^2 + 10rx + r^2$$

$$(4k+3p)^2 = (4k)^2 + 2(4k)(3p) + (3p)^2 \\ = 16k^2 + 24kp + 9p^2$$

$$(4H+5V)^2 = (4H)^2 + 2(4H)(5V) + (5V)^2 \\ = 16H^2 + 40HV + 25V^2$$

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

مثال

$$(4v-2e)^2 = (4v)^2 - 2(4v)(2e) + (2e)^2 \\ = 16v^2 - 16ev + 4e^2$$

$$(Z-5S)^2 = (Z)^2 - 2(Z)(5S) + (5S)^2 \\ = Z^2 - 10SZ + 25S^2$$

$$(2p-q)^2 = (2p)^2 - 2(2p)(q) + (q)^2 \\ = 4p^2 - 4pq + q^2$$

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

مثال

$$(3s+4m)(3s-4m) = (3s)^2 - (4m)^2 \\ = 9s^2 - 16m^2$$

$$(5Z+3X)(5Z-3X) = (5Z)^2 - (3X)^2 \\ = 25Z^2 - 9X^2$$

$$(5F+3M)(5F-3M) = (5F)^2 - (3M)^2 \\ = 25F^2 - 9M^2$$