

## بعض أشكال عملية الضرب

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

مثال

$$(U+5Q)^2 = (U)^2 + 2(U)(5Q) + (5Q)^2 \\ = U^2 + 10QU + 25Q^2$$

$$(5M+2Q)^2 = (5M)^2 + 2(5M)(2Q) + (2Q)^2 \\ = 25M^2 + 20MQ + 4Q^2$$

$$(4u+x)^2 = (4u)^2 + 2(4u)(x) + (x)^2 \\ = 16u^2 + 8ux + x^2$$

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

مثال

$$(5R-W)^2 = (5R)^2 - 2(5R)(W) + (W)^2 \\ = 25R^2 - 10RW + W^2$$

$$(p-5k)^2 = (p)^2 - 2(p)(5k) + (5k)^2 \\ = p^2 - 10kp + 25k^2$$

$$(L-2F)^2 = (L)^2 - 2(L)(2F) + (2F)^2 \\ = L^2 - 4FL + 4F^2$$

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

مثال

$$(3H+5Q)(3H-5Q) = (3H)^2 - (5Q)^2 \\ = 9H^2 - 25Q^2$$

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

$$(2w+3z)(2w-3z) = (2w)^2 - (3z)^2 \\ = 4w^2 - 9z^2$$