

## بعض أشكال عملية الضرب

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

مثال

$$(2h+3r)^2 = (2h)^2 + 2(2h)(3r) + (3r)^2 \\ = 4h^2 + 12hr + 9r^2$$

$$(4d+2x)^2 = (4d)^2 + 2(4d)(2x) + (2x)^2 \\ = 16d^2 + 16dx + 4x^2$$

$$(5T+4X)^2 = (5T)^2 + 2(5T)(4X) + (4X)^2 \\ = 25T^2 + 40TX + 16X^2$$

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

مثال

$$(u-3d)^2 = (u)^2 - 2(u)(3d) + (3d)^2 \\ = u^2 - 6du + 9d^2$$

$$(3T-4N)^2 = (3T)^2 - 2(3T)(4N) + (4N)^2 \\ = 9T^2 - 24NT + 16N^2$$

$$(5p-3z)^2 = (5p)^2 - 2(5p)(3z) + (3z)^2 \\ = 25p^2 - 30pz + 9z^2$$

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

مثال

$$(H+4C)(H-4C) = (H)^2 - (4C)^2 \\ = H^2 - 16C^2$$

$$(2E+5C)(2E-5C) = (2E)^2 - (5C)^2 \\ = 4E^2 - 25C^2$$

$$(3f+4x)(3f-4x) = (3f)^2 - (4x)^2 \\ = 9f^2 - 16x^2$$