

## بعض أشكال عملية الضرب

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

مثال

$$(3W+C)^2 = (3W)^2 + 2(3W)(C) + (C)^2 \\ = 9W^2 + 6CW + C^2$$

$$(2C+4U)^2 = (2C)^2 + 2(2C)(4U) + (4U)^2 \\ = 4C^2 + 16CU + 16U^2$$

$$(2b+t)^2 = (2b)^2 + 2(2b)(t) + (t)^2 \\ = 4b^2 + 4bt + t^2$$

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

مثال

$$(3y-4h)^2 = (3y)^2 - 2(3y)(4h) + (4h)^2 \\ = 9y^2 - 24hy + 16h^2$$

$$(5T-Z)^2 = (5T)^2 - 2(5T)(Z) + (Z)^2 \\ = 25T^2 - 10TZ + Z^2$$

$$(2R-3E)^2 = (2R)^2 - 2(2R)(3E) + (3E)^2 \\ = 4R^2 - 12ER + 9E^2$$

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

مثال

$$(2S+3D)(2S-3D) = (2S)^2 - (3D)^2 \\ = 4S^2 - 9D^2$$

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

$$(3o+2h)(3o-2h) = (3o)^2 - (2h)^2 \\ = 9o^2 - 4h^2$$