

## بعض أشكال عملية الضرب

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

مثال

$$(5h+2t)^2 = (5h)^2 + 2(5h)(2t) + (2t)^2 \\ = 25h^2 + 20ht + 4t^2$$

$$(5b+2c)^2 = (5b)^2 + 2(5b)(2c) + (2c)^2 \\ = 25b^2 + 20bc + 4c^2$$

$$(3c+5k)^2 = (3c)^2 + 2(3c)(5k) + (5k)^2 \\ = 9c^2 + 30ck + 25k^2$$

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

مثال

$$(E-3W)^2 = (E)^2 - 2(E)(3W) + (3W)^2 \\ = E^2 - 6EW + 9W^2$$

$$(4Z-2U)^2 = (4Z)^2 - 2(4Z)(2U) + (2U)^2 \\ = 16Z^2 - 16UZ + 4U^2$$

$$(5E-Y)^2 = (5E)^2 - 2(5E)(Y) + (Y)^2 \\ = 25E^2 - 10EY + Y^2$$

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

مثال

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

$$(5p+2x)(5p-2x) = (5p)^2 - (2x)^2 \\ = 25p^2 - 4x^2$$

$$(d+4j)(d-4j) = (d)^2 - (4j)^2 \\ = d^2 - 16j^2$$