

## بعض أشكال عملية الضرب

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

مثال

$$(4u+2m)^2 = (4u)^2 + 2(4u)(2m) + (2m)^2 \\ = 16u^2 + 16mu + 4m^2$$

$$(u+4q)^2 = (u)^2 + 2(u)(4q) + (4q)^2 \\ = u^2 + 8qu + 16q^2$$

$$(4c+2s)^2 = (4c)^2 + 2(4c)(2s) + (2s)^2 \\ = 16c^2 + 16cs + 4s^2$$

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

مثال

$$(2c-3y)^2 = (2c)^2 - 2(2c)(3y) + (3y)^2 \\ = 4c^2 - 12cy + 9y^2$$

$$(5h-4s)^2 = (5h)^2 - 2(5h)(4s) + (4s)^2 \\ = 25h^2 - 40hs + 16s^2$$

$$(X-2B)^2 = (X)^2 - 2(X)(2B) + (2B)^2 \\ = X^2 - 4BX + 4B^2$$

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

مثال

$$(v+5g)(v-5g) = (v)^2 - (5g)^2 \\ = v^2 - 25g^2$$

$$(5V+4I)(5V-4I) = (5V)^2 - (4I)^2 \\ = 25V^2 - 16I^2$$

$$(4t+5w)(4t-5w) = (4t)^2 - (5w)^2 \\ = 16t^2 - 25w^2$$