

بعض أشكال عملية الضرب

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

مثال

$$(4y+2a)^2 = (4y)^2 + 2(4y)(2a) + (2a)^2 \\ = 16y^2 + 16ay + 4a^2$$

$$(5t+4g)^2 = (5t)^2 + 2(5t)(4g) + (4g)^2 \\ = 25t^2 + 40gt + 16g^2$$

$$(h+3d)^2 = (h)^2 + 2(h)(3d) + (3d)^2 \\ = h^2 + 6dh + 9d^2$$

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

مثال

$$(X-5P)^2 = (X)^2 - 2(X)(5P) + (5P)^2 \\ = X^2 - 10PX + 25P^2$$

$$(2b-3p)^2 = (2b)^2 - 2(2b)(3p) + (3p)^2 \\ = 4b^2 - 12bp + 9p^2$$

$$(5f-3a)^2 = (5f)^2 - 2(5f)(3a) + (3a)^2 \\ = 25f^2 - 30af + 9a^2$$

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

مثال

$$(T+5S)(T-5S) = (T)^2 - (5S)^2 \\ = T^2 - 25S^2$$

$$(3p+d)(3p-d) = (3p)^2 - (d)^2 \\ = 9p^2 - d^2$$

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