

بعض أشكال عملية الضرب

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

مثال

$$(3d+2x)^2 = (3d)^2 + 2(3d)(2x) + (2x)^2 \\ = 9d^2 + 12dx + 4x^2$$

$$(2L+3Q)^2 = (2L)^2 + 2(2L)(3Q) + (3Q)^2 \\ = 4L^2 + 12LQ + 9Q^2$$

$$(N+2B)^2 = (N)^2 + 2(N)(2B) + (2B)^2 \\ = N^2 + 4BN + 4B^2$$

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

مثال

$$(2t-u)^2 = (2t)^2 - 2(2t)(u) + (u)^2 \\ = 4t^2 - 4tu + u^2$$

$$(4z-5g)^2 = (4z)^2 - 2(4z)(5g) + (5g)^2 \\ = 16z^2 - 40gz + 25g^2$$

$$(2D-5Y)^2 = (2D)^2 - 2(2D)(5Y) + (5Y)^2 \\ = 4D^2 - 20DY + 25Y^2$$

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

مثال

$$(5h+3b)(5h-3b) = (5h)^2 - (3b)^2 \\ = 25h^2 - 9b^2$$

$$(M+5G)(M-5G) = (M)^2 - (5G)^2 \\ = M^2 - 25G^2$$

$$(5W+3N)(5W-3N) = (5W)^2 - (3N)^2 \\ = 25W^2 - 9N^2$$