

بعض أشكال عملية الضرب

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

مثال

$$(d+5h)^2 = (d)^2 + 2(d)(5h) + (5h)^2 \\ = d^2 + 10dh + 25h^2$$

$$(Q+5R)^2 = (Q)^2 + 2(Q)(5R) + (5R)^2 \\ = Q^2 + 10QR + 25R^2$$

$$(4N+5S)^2 = (4N)^2 + 2(4N)(5S) + (5S)^2 \\ = 16N^2 + 40NS + 25S^2$$

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

مثال

$$(B-3L)^2 = (B)^2 - 2(B)(3L) + (3L)^2 \\ = B^2 - 6BL + 9L^2$$

$$(2G-5Y)^2 = (2G)^2 - 2(2G)(5Y) + (5Y)^2 \\ = 4G^2 - 20GY + 25Y^2$$

$$(5S-3U)^2 = (5S)^2 - 2(5S)(3U) + (3U)^2 \\ = 25S^2 - 30SU + 9U^2$$

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

مثال

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

$$(p+4h)(p-4h) = (p)^2 - (4h)^2 \\ = p^2 - 16h^2$$

$$(T+3Z)(T-3Z) = (T)^2 - (3Z)^2 \\ = T^2 - 9Z^2$$