

بعض أشكال عملية الضرب

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

مثال

$$(w+5n)^2 = (w)^2 + 2(w)(5n) + (5n)^2 \\ = w^2 + 10nw + 25n^2$$

$$(3w+d)^2 = (3w)^2 + 2(3w)(d) + (d)^2 \\ = 9w^2 + 6dw + d^2$$

$$(2j+5x)^2 = (2j)^2 + 2(2j)(5x) + (5x)^2 \\ = 4j^2 + 20jx + 25x^2$$

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

مثال

$$(4Y-5P)^2 = (4Y)^2 - 2(4Y)(5P) + (5P)^2 \\ = 16Y^2 - 40PY + 25P^2$$

$$(3z-e)^2 = (3z)^2 - 2(3z)(e) + (e)^2 \\ = 9z^2 - 6ez + e^2$$

$$(2x-5b)^2 = (2x)^2 - 2(2x)(5b) + (5b)^2 \\ = 4x^2 - 20bx + 25b^2$$

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

مثال

$$(2k+4x)(2k-4x) = (2k)^2 - (4x)^2 \\ = 4k^2 - 16x^2$$

$$(u+4c)(u-4c) = (u)^2 - (4c)^2 \\ = u^2 - 16c^2$$

$$(4x+3b)(4x-3b) = (4x)^2 - (3b)^2 \\ = 16x^2 - 9b^2$$