

بعض أشكال عملية الضرب

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

مثال

$$(X+5C)^2 = (X)^2 + 2(X)(5C) + (5C)^2 \\ = X^2 + 10CX + 25C^2$$

$$(r+4b)^2 = (r)^2 + 2(r)(4b) + (4b)^2 \\ = r^2 + 8br + 16b^2$$

$$(s+5x)^2 = (s)^2 + 2(s)(5x) + (5x)^2 \\ = s^2 + 10sx + 25x^2$$

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

مثال

$$(3I-2V)^2 = (3I)^2 - 2(3I)(2V) + (2V)^2 \\ = 9I^2 - 12IV + 4V^2$$

$$(5d-s)^2 = (5d)^2 - 2(5d)(s) + (s)^2 \\ = 25d^2 - 10ds + s^2$$

$$(4W-3J)^2 = (4W)^2 - 2(4W)(3J) + (3J)^2 \\ = 16W^2 - 24JW + 9J^2$$

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

مثال

$$(3K+4A)(3K-4A) = (3K)^2 - (4A)^2 \\ = 9K^2 - 16A^2$$

$$(E+4A)(E-4A) = (E)^2 - (4A)^2 \\ = E^2 - 16A^2$$

$$(3J+4N)(3J-4N) = (3J)^2 - (4N)^2 \\ = 9J^2 - 16N^2$$