

بعض أشكال عملية الضرب

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

مثال

$$(4T+5D)^2 = (4T)^2 + 2(4T)(5D) + (5D)^2 \\ = 16T^2 + 40DT + 25D^2$$

$$(2o+a)^2 = (2o)^2 + 2(2o)(a) + (a)^2 \\ = 4o^2 + 4ao + a^2$$

$$(4Q+3H)^2 = (4Q)^2 + 2(4Q)(3H) + (3H)^2 \\ = 16Q^2 + 24HQ + 9H^2$$

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

مثال

$$(2r-p)^2 = (2r)^2 - 2(2r)(p) + (p)^2 \\ = 4r^2 - 4pr + p^2$$

$$(3Z-E)^2 = (3Z)^2 - 2(3Z)(E) + (E)^2 \\ = 9Z^2 - 6EZ + E^2$$

$$(2f-3e)^2 = (2f)^2 - 2(2f)(3e) + (3e)^2 \\ = 4f^2 - 12ef + 9e^2$$

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

مثال

$$(5x+q)(5x-q) = (5x)^2 - (q)^2 \\ = 25x^2 - q^2$$

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

$$(3d+5q)(3d-5q) = (3d)^2 - (5q)^2 \\ = 9d^2 - 25q^2$$