

بعض أشكال عملية الضرب

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

مثال

$$(3M+5D)^2 = (3M)^2 + 2(3M)(5D) + (5D)^2 \\ = 9M^2 + 30DM + 25D^2$$

$$(2x+4q)^2 = (2x)^2 + 2(2x)(4q) + (4q)^2 \\ = 4x^2 + 16qx + 16q^2$$

$$(5N+T)^2 = (5N)^2 + 2(5N)(T) + (T)^2 \\ = 25N^2 + 10NT + T^2$$

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

مثال

$$(4m-3e)^2 = (4m)^2 - 2(4m)(3e) + (3e)^2 \\ = 16m^2 - 24em + 9e^2$$

$$(2r-3t)^2 = (2r)^2 - 2(2r)(3t) + (3t)^2 \\ = 4r^2 - 12rt + 9t^2$$

$$(5X-V)^2 = (5X)^2 - 2(5X)(V) + (V)^2 \\ = 25X^2 - 10VX + V^2$$

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

مثال

$$(4V+Z)(4V-Z) = (4V)^2 - (Z)^2 \\ = 16V^2 - Z^2$$

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

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