

بعض أشكال عملية الضرب

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

مثال

$$(5x+3o)^2 = (5x)^2 + 2(5x)(3o) + (3o)^2 \\ = 25x^2 + 30ox + 9o^2$$

$$(3U+2Y)^2 = (3U)^2 + 2(3U)(2Y) + (2Y)^2 \\ = 9U^2 + 12UY + 4Y^2$$

$$(2e+3v)^2 = (2e)^2 + 2(2e)(3v) + (3v)^2 \\ = 4e^2 + 12ev + 9v^2$$

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

مثال

$$(F-4B)^2 = (F)^2 - 2(F)(4B) + (4B)^2 \\ = F^2 - 8BF + 16B^2$$

$$(b-3n)^2 = (b)^2 - 2(b)(3n) + (3n)^2 \\ = b^2 - 6bn + 9n^2$$

$$(3y-s)^2 = (3y)^2 - 2(3y)(s) + (s)^2 \\ = 9y^2 - 6sy + s^2$$

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

مثال

$$(t+3f)(t-3f) = (t)^2 - (3f)^2 \\ = t^2 - 9f^2$$

$$(3Z+2Y)(3Z-2Y) = (3Z)^2 - (2Y)^2 \\ = 9Z^2 - 4Y^2$$

$$(3k+5m)(3k-5m) = (3k)^2 - (5m)^2 \\ = 9k^2 - 25m^2$$