

بعض أشكال عملية الضرب

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

مثال

$$(3N+4H)^2 = (3N)^2 + 2(3N)(4H) + (4H)^2 \\ = 9N^2 + 24HN + 16H^2$$

$$(2d+5f)^2 = (2d)^2 + 2(2d)(5f) + (5f)^2 \\ = 4d^2 + 20df + 25f^2$$

$$(3p+2w)^2 = (3p)^2 + 2(3p)(2w) + (2w)^2 \\ = 9p^2 + 12pw + 4w^2$$

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

مثال

$$(p-5y)^2 = (p)^2 - 2(p)(5y) + (5y)^2 \\ = p^2 - 10py + 25y^2$$

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

$$(2f-5y)^2 = (2f)^2 - 2(2f)(5y) + (5y)^2 \\ = 4f^2 - 20fy + 25y^2$$

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

مثال

$$(3f+2t)(3f-2t) = (3f)^2 - (2t)^2 \\ = 9f^2 - 4t^2$$

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

$$(4D+F)(4D-F) = (4D)^2 - (F)^2 \\ = 16D^2 - F^2$$