

بعض أشكال عملية الضرب

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

مثال

$$(4a+2w)^2 = (4a)^2 + 2(4a)(2w) + (2w)^2 \\ = 16a^2 + 16aw + 4w^2$$

$$(2W+5X)^2 = (2W)^2 + 2(2W)(5X) + (5X)^2 \\ = 4W^2 + 20WX + 25X^2$$

$$(3K+4C)^2 = (3K)^2 + 2(3K)(4C) + (4C)^2 \\ = 9K^2 + 24CK + 16C^2$$

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

مثال

$$(2f-n)^2 = (2f)^2 - 2(2f)(n) + (n)^2 \\ = 4f^2 - 4fn + n^2$$

$$(5h-4u)^2 = (5h)^2 - 2(5h)(4u) + (4u)^2 \\ = 25h^2 - 40hu + 16u^2$$

$$(3v-4r)^2 = (3v)^2 - 2(3v)(4r) + (4r)^2 \\ = 9v^2 - 24rv + 16r^2$$

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

مثال

$$(5X+4V)(5X-4V) = (5X)^2 - (4V)^2 \\ = 25X^2 - 16V^2$$

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

$$(4i+2v)(4i-2v) = (4i)^2 - (2v)^2 \\ = 16i^2 - 4v^2$$