

بعض أشكال عملية الضرب

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

مثال

$$(3f+4s)^2 = (3f)^2 + 2(3f)(4s) + (4s)^2 \\ = 9f^2 + 24fs + 16s^2$$

$$(4c+5a)^2 = (4c)^2 + 2(4c)(5a) + (5a)^2 \\ = 16c^2 + 40ac + 25a^2$$

$$(T+5D)^2 = (T)^2 + 2(T)(5D) + (5D)^2 \\ = T^2 + 10DT + 25D^2$$

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

مثال

$$(3f-2q)^2 = (3f)^2 - 2(3f)(2q) + (2q)^2 \\ = 9f^2 - 12fq + 4q^2$$

$$(L-2S)^2 = (L)^2 - 2(L)(2S) + (2S)^2 \\ = L^2 - 4LS + 4S^2$$

$$(3V-4N)^2 = (3V)^2 - 2(3V)(4N) + (4N)^2 \\ = 9V^2 - 24NV + 16N^2$$

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

مثال

$$(4r+5z)(4r-5z) = (4r)^2 - (5z)^2 \\ = 16r^2 - 25z^2$$

$$(v+2s)(v-2s) = (v)^2 - (2s)^2 \\ = v^2 - 4s^2$$

$$(5V+3W)(5V-3W) = (5V)^2 - (3W)^2 \\ = 25V^2 - 9W^2$$