

بعض أشكال عملية الضرب

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

مثال

$$(I+50)^2 = (I)^2 + 2(I)(50) + (50)^2 \\ = I^2 + 100I + 2500$$

$$(K+2A)^2 = (K)^2 + 2(K)(2A) + (2A)^2 \\ = K^2 + 4AK + 4A^2$$

$$(2M+3R)^2 = (2M)^2 + 2(2M)(3R) + (3R)^2 \\ = 4M^2 + 12MR + 9R^2$$

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

مثال

$$(4k-5e)^2 = (4k)^2 - 2(4k)(5e) + (5e)^2 \\ = 16k^2 - 40ek + 25e^2$$

$$(2a-3u)^2 = (2a)^2 - 2(2a)(3u) + (3u)^2 \\ = 4a^2 - 12au + 9u^2$$

$$(2b-s)^2 = (2b)^2 - 2(2b)(s) + (s)^2 \\ = 4b^2 - 4bs + s^2$$

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

مثال

$$(4K+3S)(4K-3S) = (4K)^2 - (3S)^2 \\ = 16K^2 - 9S^2$$

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

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