

بعض أشكال عملية الضرب

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

مثال

$$(3V+5B)^2 = (3V)^2 + 2(3V)(5B) + (5B)^2 \\ = 9V^2 + 30BV + 25B^2$$

$$(3B+F)^2 = (3B)^2 + 2(3B)(F) + (F)^2 \\ = 9B^2 + 6BF + F^2$$

$$(n+5k)^2 = (n)^2 + 2(n)(5k) + (5k)^2 \\ = n^2 + 10kn + 25k^2$$

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

مثال

$$(4K-2H)^2 = (4K)^2 - 2(4K)(2H) + (2H)^2 \\ = 16K^2 - 16HK + 4H^2$$

$$(q-3f)^2 = (q)^2 - 2(q)(3f) + (3f)^2 \\ = q^2 - 6fq + 9f^2$$

$$(3v-4b)^2 = (3v)^2 - 2(3v)(4b) + (4b)^2 \\ = 9v^2 - 24bv + 16b^2$$

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

مثال

$$(4P+2U)(4P-2U) = (4P)^2 - (2U)^2 \\ = 16P^2 - 4U^2$$

$$(2J+R)(2J-R) = (2J)^2 - (R)^2 \\ = 4J^2 - R^2$$

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