

بعض أشكال عملية الضرب

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

مثال

$$(2n+5q)^2 = (2n)^2 + 2(2n)(5q) + (5q)^2 \\ = 4n^2 + 20nq + 25q^2$$

$$(3r+5m)^2 = (3r)^2 + 2(3r)(5m) + (5m)^2 \\ = 9r^2 + 30mr + 25m^2$$

$$(a+3e)^2 = (a)^2 + 2(a)(3e) + (3e)^2 \\ = a^2 + 6ae + 9e^2$$

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

مثال

$$(V-2U)^2 = (V)^2 - 2(V)(2U) + (2U)^2 \\ = V^2 - 4UV + 4U^2$$

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

$$(5q-b)^2 = (5q)^2 - 2(5q)(b) + (b)^2 \\ = 25q^2 - 10bq + b^2$$

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

مثال

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

$$(5N+2F)(5N-2F) = (5N)^2 - (2F)^2 \\ = 25N^2 - 4F^2$$

$$(5w+2x)(5w-2x) = (5w)^2 - (2x)^2 \\ = 25w^2 - 4x^2$$