

بعض أشكال عملية الضرب

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

مثال

$$(4a+5x)^2 = (4a)^2 + 2(4a)(5x) + (5x)^2 \\ = 16a^2 + 40ax + 25x^2$$

$$(5z+4g)^2 = (5z)^2 + 2(5z)(4g) + (4g)^2 \\ = 25z^2 + 40gz + 16g^2$$

$$(5z+4p)^2 = (5z)^2 + 2(5z)(4p) + (4p)^2 \\ = 25z^2 + 40pz + 16p^2$$

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

مثال

$$(4b-2y)^2 = (4b)^2 - 2(4b)(2y) + (2y)^2 \\ = 16b^2 - 16by + 4y^2$$

$$(4s-5n)^2 = (4s)^2 - 2(4s)(5n) + (5n)^2 \\ = 16s^2 - 40ns + 25n^2$$

$$(3q-4j)^2 = (3q)^2 - 2(3q)(4j) + (4j)^2 \\ = 9q^2 - 24jq + 16j^2$$

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

مثال

$$(2b+5j)(2b-5j) = (2b)^2 - (5j)^2 \\ = 4b^2 - 25j^2$$

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

$$(3D+4N)(3D-4N) = (3D)^2 - (4N)^2 \\ = 9D^2 - 16N^2$$