

بعض أشكال عملية الضرب

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

مثال

$$(R+40)^2 = (R)^2 + 2(R)(40) + (40)^2 \\ = R^2 + 80R + 160^2$$

$$(3n+2b)^2 = (3n)^2 + 2(3n)(2b) + (2b)^2 \\ = 9n^2 + 12bn + 4b^2$$

$$(2C+3E)^2 = (2C)^2 + 2(2C)(3E) + (3E)^2 \\ = 4C^2 + 12CE + 9E^2$$

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

مثال

$$(u-3e)^2 = (u)^2 - 2(u)(3e) + (3e)^2 \\ = u^2 - 6eu + 9e^2$$

$$(2h-3f)^2 = (2h)^2 - 2(2h)(3f) + (3f)^2 \\ = 4h^2 - 12fh + 9f^2$$

$$(2q-5g)^2 = (2q)^2 - 2(2q)(5g) + (5g)^2 \\ = 4q^2 - 20gq + 25g^2$$

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

مثال

$$(5M+B)(5M-B) = (5M)^2 - (B)^2 \\ = 25M^2 - B^2$$

$$(3Z+5B)(3Z-5B) = (3Z)^2 - (5B)^2 \\ = 9Z^2 - 25B^2$$

$$(5N+4B)(5N-4B) = (5N)^2 - (4B)^2 \\ = 25N^2 - 16B^2$$