

بعض أشكال عملية الضرب

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

مثال

$$(5f + 2b)^2 = (5f)^2 + 2(5f)(2b) + (2b)^2 \\ = 25f^2 + 20bf + 4b^2$$

$$(2K + Y)^2 = (2K)^2 + 2(2K)(Y) + (Y)^2 \\ = 4K^2 + 4KY + Y^2$$

$$(m + 4a)^2 = (m)^2 + 2(m)(4a) + (4a)^2 \\ = m^2 + 8am + 16a^2$$

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

مثال

$$(3V - 4J)^2 = (3V)^2 - 2(3V)(4J) + (4J)^2 \\ = 9V^2 - 24JV + 16J^2$$

$$(3I - 2L)^2 = (3I)^2 - 2(3I)(2L) + (2L)^2 \\ = 9I^2 - 12IL + 4L^2$$

$$(5p - 4g)^2 = (5p)^2 - 2(5p)(4g) + (4g)^2 \\ = 25p^2 - 40gp + 16g^2$$

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

مثال

$$(5T + 4Y)(5T - 4Y) = (5T)^2 - (4Y)^2 \\ = 25T^2 - 16Y^2$$

$$(5f + r)(5f - r) = (5f)^2 - (r)^2 \\ = 25f^2 - r^2$$

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