

بعض أشكال عملية الضرب

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

مثال

$$(5p+c)^2 = (5p)^2 + 2(5p)(c) + (c)^2 \\ = 25p^2 + 10cp + c^2$$

$$(M+5P)^2 = (M)^2 + 2(M)(5P) + (5P)^2 \\ = M^2 + 10MP + 25P^2$$

$$(3V+5Q)^2 = (3V)^2 + 2(3V)(5Q) + (5Q)^2 \\ = 9V^2 + 30QV + 25Q^2$$

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

مثال

$$(3A-4D)^2 = (3A)^2 - 2(3A)(4D) + (4D)^2 \\ = 9A^2 - 24AD + 16D^2$$

$$(4d-c)^2 = (4d)^2 - 2(4d)(c) + (c)^2 \\ = 16d^2 - 8cd + c^2$$

$$(r-4a)^2 = (r)^2 - 2(r)(4a) + (4a)^2 \\ = r^2 - 8ar + 16a^2$$

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

مثال

$$(5U+2I)(5U-2I) = (5U)^2 - (2I)^2 \\ = 25U^2 - 4I^2$$

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

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