

بعض أشكال عملية الضرب

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

مثال

$$(3T+E)^2 = (3T)^2 + 2(3T)(E) + (E)^2 \\ = 9T^2 + 6ET + E^2$$

$$(5P+2Q)^2 = (5P)^2 + 2(5P)(2Q) + (2Q)^2 \\ = 25P^2 + 20PQ + 4Q^2$$

$$(2D+4T)^2 = (2D)^2 + 2(2D)(4T) + (4T)^2 \\ = 4D^2 + 16DT + 16T^2$$

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

مثال

$$(5c-3h)^2 = (5c)^2 - 2(5c)(3h) + (3h)^2 \\ = 25c^2 - 30ch + 9h^2$$

$$(2X-3L)^2 = (2X)^2 - 2(2X)(3L) + (3L)^2 \\ = 4X^2 - 12LX + 9L^2$$

$$(3F-2K)^2 = (3F)^2 - 2(3F)(2K) + (2K)^2 \\ = 9F^2 - 12FK + 4K^2$$

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

مثال

$$(2I+4L)(2I-4L) = (2I)^2 - (4L)^2 \\ = 4I^2 - 16L^2$$

$$(3r+5f)(3r-5f) = (3r)^2 - (5f)^2 \\ = 9r^2 - 25f^2$$

$$(5J+Z)(5J-Z) = (5J)^2 - (Z)^2 \\ = 25J^2 - Z^2$$