

## بعض أشكال عملية الضرب

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

مثال

$$(5d+3h)^2 = (5d)^2 + 2(5d)(3h) + (3h)^2 \\ = 25d^2 + 30dh + 9h^2$$

$$(4r+3h)^2 = (4r)^2 + 2(4r)(3h) + (3h)^2 \\ = 16r^2 + 24hr + 9h^2$$

$$(3y+5x)^2 = (3y)^2 + 2(3y)(5x) + (5x)^2 \\ = 9y^2 + 30xy + 25x^2$$

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

مثال

$$(T-5E)^2 = (T)^2 - 2(T)(5E) + (5E)^2 \\ = T^2 - 10ET + 25E^2$$

$$(2i-f)^2 = (2i)^2 - 2(2i)(f) + (f)^2 \\ = 4i^2 - 4fi + f^2$$

$$(4P-2J)^2 = (4P)^2 - 2(4P)(2J) + (2J)^2 \\ = 16P^2 - 16JP + 4J^2$$

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

مثال

$$(3E+4U)(3E-4U) = (3E)^2 - (4U)^2 \\ = 9E^2 - 16U^2$$

$$(M+3J)(M-3J) = (M)^2 - (3J)^2 \\ = M^2 - 9J^2$$

$$(4h+5c)(4h-5c) = (4h)^2 - (5c)^2 \\ = 16h^2 - 25c^2$$