

## بعض أشكال عملية الضرب

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

مثال

$$(5x+2p)^2 = (5x)^2 + 2(5x)(2p) + (2p)^2 \\ = 25x^2 + 20px + 4p^2$$

$$(r+5b)^2 = (r)^2 + 2(r)(5b) + (5b)^2 \\ = r^2 + 10br + 25b^2$$

$$(2v+3o)^2 = (2v)^2 + 2(2v)(3o) + (3o)^2 \\ = 4v^2 + 12ov + 9o^2$$

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

مثال

$$(3F-5C)^2 = (3F)^2 - 2(3F)(5C) + (5C)^2 \\ = 9F^2 - 30CF + 25C^2$$

$$(4h-b)^2 = (4h)^2 - 2(4h)(b) + (b)^2 \\ = 16h^2 - 8bh + b^2$$

$$(3a-2t)^2 = (3a)^2 - 2(3a)(2t) + (2t)^2 \\ = 9a^2 - 12at + 4t^2$$

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

مثال

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

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

$$(S+2T)(S-2T) = (S)^2 - (2T)^2 \\ = S^2 - 4T^2$$