

## بعض أشكال عملية الضرب

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

مثال

$$(4P+V)^2 = (4P)^2 + 2(4P)(V) + (V)^2 \\ = 16P^2 + 8PV + V^2$$

$$(2I+5A)^2 = (2I)^2 + 2(2I)(5A) + (5A)^2 \\ = 4I^2 + 20AI + 25A^2$$

$$(2X+5S)^2 = (2X)^2 + 2(2X)(5S) + (5S)^2 \\ = 4X^2 + 20SX + 25S^2$$

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

مثال

$$(3X-M)^2 = (3X)^2 - 2(3X)(M) + (M)^2 \\ = 9X^2 - 6MX + M^2$$

$$(5S-V)^2 = (5S)^2 - 2(5S)(V) + (V)^2 \\ = 25S^2 - 10SV + V^2$$

$$(u-4d)^2 = (u)^2 - 2(u)(4d) + (4d)^2 \\ = u^2 - 8du + 16d^2$$

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

مثال

$$(2Y+D)(2Y-D) = (2Y)^2 - (D)^2 \\ = 4Y^2 - D^2$$

$$(5u+3t)(5u-3t) = (5u)^2 - (3t)^2 \\ = 25u^2 - 9t^2$$

$$(2m+5s)(2m-5s) = (2m)^2 - (5s)^2 \\ = 4m^2 - 25s^2$$