

بعض أشكال عملية الضرب

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

مثال

$$(5M+3D)^2 = (5M)^2 + 2(5M)(3D) + (3D)^2 \\ = 25M^2 + 30DM + 9D^2$$

$$(2r+3s)^2 = (2r)^2 + 2(2r)(3s) + (3s)^2 \\ = 4r^2 + 12rs + 9s^2$$

$$(u+3b)^2 = (u)^2 + 2(u)(3b) + (3b)^2 \\ = u^2 + 6bu + 9b^2$$

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

مثال

$$(5w-4k)^2 = (5w)^2 - 2(5w)(4k) + (4k)^2 \\ = 25w^2 - 40kw + 16k^2$$

$$(N-4U)^2 = (N)^2 - 2(N)(4U) + (4U)^2 \\ = N^2 - 8NU + 16U^2$$

$$(3d-v)^2 = (3d)^2 - 2(3d)(v) + (v)^2 \\ = 9d^2 - 6dv + v^2$$

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

مثال

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

$$(L+2P)(L-2P) = (L)^2 - (2P)^2 \\ = L^2 - 4P^2$$

$$(5P+D)(5P-D) = (5P)^2 - (D)^2 \\ = 25P^2 - D^2$$