

بعض أشكال عملية الضرب

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

مثال

$$(2j + 5z)^2 = (2j)^2 + 2(2j)(5z) + (5z)^2 \\ = 4j^2 + 20jz + 25z^2$$

$$(4S + 5E)^2 = (4S)^2 + 2(4S)(5E) + (5E)^2 \\ = 16S^2 + 40ES + 25E^2$$

$$(2I + 4E)^2 = (2I)^2 + 2(2I)(4E) + (4E)^2 \\ = 4I^2 + 16EI + 16E^2$$

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

مثال

$$(5s - 4m)^2 = (5s)^2 - 2(5s)(4m) + (4m)^2 \\ = 25s^2 - 40ms + 16m^2$$

$$(5v - u)^2 = (5v)^2 - 2(5v)(u) + (u)^2 \\ = 25v^2 - 10uv + u^2$$

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

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

مثال

$$(2i + 4x)(2i - 4x) = (2i)^2 - (4x)^2 \\ = 4i^2 - 16x^2$$

$$(2t + 3x)(2t - 3x) = (2t)^2 - (3x)^2 \\ = 4t^2 - 9x^2$$

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