

بعض أشكال عملية الضرب

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

مثال

$$(2h+4p)^2 = (2h)^2 + 2(2h)(4p) + (4p)^2 \\ = 4h^2 + 16hp + 16p^2$$

$$(3i+4j)^2 = (3i)^2 + 2(3i)(4j) + (4j)^2 \\ = 9i^2 + 24ij + 16j^2$$

$$(5s+4x)^2 = (5s)^2 + 2(5s)(4x) + (4x)^2 \\ = 25s^2 + 40sx + 16x^2$$

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

مثال

$$(2I-4T)^2 = (2I)^2 - 2(2I)(4T) + (4T)^2 \\ = 4I^2 - 16IT + 16T^2$$

$$(2G-4S)^2 = (2G)^2 - 2(2G)(4S) + (4S)^2 \\ = 4G^2 - 16GS + 16S^2$$

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

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

مثال

$$(2G+5S)(2G-5S) = (2G)^2 - (5S)^2 \\ = 4G^2 - 25S^2$$

$$(5G+4L)(5G-4L) = (5G)^2 - (4L)^2 \\ = 25G^2 - 16L^2$$

$$(3j+5h)(3j-5h) = (3j)^2 - (5h)^2 \\ = 9j^2 - 25h^2$$