

بعض أشكال عملية الضرب

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

مثال

$$(5i + 2m)^2 = (5i)^2 + 2(5i)(2m) + (2m)^2 \\ = 25i^2 + 20im + 4m^2$$

$$(D + 3M)^2 = (D)^2 + 2(D)(3M) + (3M)^2 \\ = D^2 + 6DM + 9M^2$$

$$(5F + 3M)^2 = (5F)^2 + 2(5F)(3M) + (3M)^2 \\ = 25F^2 + 30FM + 9M^2$$

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

مثال

$$(4o - 2z)^2 = (4o)^2 - 2(4o)(2z) + (2z)^2 \\ = 16o^2 - 16oz + 4z^2$$

$$(5M - 3I)^2 = (5M)^2 - 2(5M)(3I) + (3I)^2 \\ = 25M^2 - 30IM + 9I^2$$

$$(2n - t)^2 = (2n)^2 - 2(2n)(t) + (t)^2 \\ = 4n^2 - 4nt + t^2$$

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

مثال

$$(f + 4d)(f - 4d) = (f)^2 - (4d)^2 \\ = f^2 - 16d^2$$

$$(H + 5F)(H - 5F) = (H)^2 - (5F)^2 \\ = H^2 - 25F^2$$

$$(5F + 4Z)(5F - 4Z) = (5F)^2 - (4Z)^2 \\ = 25F^2 - 16Z^2$$