

Exercise 2

What is the basic principle in multiplication of complex numbers?

Solution

The basic principle in the multiplication of complex numbers is the distributive property.

$$z_1 z_2$$

$$(a + bi)(c + di)$$

$$ac + adi + bci + bdi^2$$

$$ac + (ad + bc)i - bd$$

$$(ac - bd) + (ad + bc)i$$