

## Chapter 10

# Elements of Complex Analysis

### 10.1 Complex numbers

#### 10.1.1 The set of complex numbers

$$\mathbb{C} = \mathbb{R} + \mathbb{R}i = \{z = x + yi \mid x, y \in \mathbb{R}\}$$

considered together with the addition

$$(x + yi) + (x' + y'i) = (x + x') + (y + y')i$$

and multiplication by a real number

$$\alpha(x + yi) = \alpha x + \alpha yi$$

is a real vector space of dimension 2. The usual form of a complex number  $z = x + yi$  represents its expansion in the basis  $\{1, i\}$ . The linear isomorphism

$$\mathbb{R}^2 \longrightarrow \mathbb{C} : (x, y) \mapsto x + yi$$

allows us to identify the two real vector spaces and leads to a natural geometric interpretation of the complex numbers (the complex plane).

#### 10.1.2 The relation $i^2 = -1$ allows us to define an additional operation in $\mathbb{C}$

$$(x + yi)(x' + y'i) = (xx' - yy') + (xy' + yx')i.$$

called the *multiplication* of complex numbers. The set  $\mathbb{C}$  considered together with the addition and multiplication of complex numbers is a commutative field. Particularly, any non-null complex number admits an inverse

# Elements Of Complex Analysis

**RS Peters**



## **Elements Of Complex Analysis:**

## Embracing the Tune of Appearance: An Emotional Symphony within **Elements Of Complex Analysis**

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