

Functions of Several Real Variables

2.1 Introduction

In Chapter 1 we studied the calculus of functions of a single real variable defined by $y = f(x)$. In this chapter we shall extend the concepts of functions of one variable to functions of two or more variables.

If to each point (x, y) of a certain part of the x - y plane, $x \in \mathbb{R}$, $y \in \mathbb{R}$ or $(x, y) \in \mathbb{R} \times \mathbb{R} = \mathbb{R}^2$, there corresponds a real value z according to some rule $f(x, y)$, then $f(x, y)$ is called a *real valued function of two variables* x and y and is written as

$$z = f(x, y), x \in \mathbb{R}, y \in \mathbb{R}, \text{ or } (x, y) \in \mathbb{R}^2, z \in \mathbb{R}. \quad (2.1)$$

We call x, y as the independent variables and z as the dependent variable.

In general, we define a real valued function of n variables as

$$z = f(x_1, x_2, \dots, x_n), (x_1, x_2, \dots, x_n) \in \mathbb{R}^n, z \in \mathbb{R} \quad (2.2)$$

where x_1, x_2, \dots, x_n are the n independent variables and z is the dependent variable. The point (x_1, x_2, \dots, x_n) is called an *n -tuple* and lies in an n -dimensional space. In this case, the function f maps \mathbb{R}^n into \mathbb{R} .

The function as defined by Eq. (2.2) is called an *explicit* function, whereas a function defined by $\phi(z, x_1, x_2, \dots, x_n) = 0$ is called an *implicit* function.

We shall discuss the calculus of the functions of two variables in detail and then generalize to the case of several variables.

2.2 Functions of Two Variables

Consider the function of two variables

$$z = f(x, y). \quad (2.3)$$

The set of points (x, y) in the x - y plane for which $f(x, y)$ is defined is called the *domain* of definition of the function and is denoted by D . This domain may be the entire x - y plane or a part of the x - y plane. The collection of the corresponding values of z is called the *range* of the function. The following are some examples

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