

## Section 1.1: Graphs of Functions

**Definition 1.1** If  $f$  is a function with domain  $D$ , then the graph of  $f$  is the set of all ordered pairs

$$\{(x, f(x)) \mid x \in D\}.$$

That is, the graph of  $f$  is the set of all points  $(x, y)$  such that  $y = f(x)$ . This is the same as the graph of the equation  $y = f(x)$ , discussed in the lecture on Cartesian coordinates.

The graph of a function often is an accessible geometric object, such as points or pictures.

A function of the form  $f(x) = ax + b$  is called a **linear function** because the graph of the corresponding equation  $y = ax + b$  is a line. A function of the form  $f(x) = a$  where  $a$  is a real number is constant (it is called a **constant function** since its value does not vary as  $x$  varies).

**Example 1.1** Draw the graphs of the functions

$$f(x) = 3, \quad g(x) = 3x + 4.$$

**Graphing Functions** As you progress through calculus, you will be required to graph a function with increasing (and sophisticated) levels of difficulty and complexity. The good news (and/or getting a picture of the graph of a function) is to use the **table-of-values** method. Namely, one picks a few values of  $x$  and calculates the corresponding values of  $y$  as  $f(x)$ , plot the resulting points  $(x, f(x))$  and join the dots.

**Example 1.2** is the table shown below for the functions

$$f(x) = x^2, \quad g(x) = x^3, \quad h(x) = \sqrt{x}.$$

and plot the corresponding points on the Cartesian plane. Join the dots to get a picture of the graph of each function.

$x$	$f(x) = x^2$
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

$x$	$g(x) = x^3$
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

$x$	$h(x) = \sqrt{x}$
0	
1	
4	
9	
16	
25	
36	

# Lecture 11 Graphs Of Functions University Of Notre Dame

**Tao Wei**



## **Lecture 11 Graphs Of Functions University Of Notre Dame:**

## **Lecture 11 Graphs Of Functions University Of Notre Dame** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Lecture 11 Graphs Of Functions University Of Notre Dame**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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