

## Lecture 11: Graphs of Functions

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

$$\{(x, f(x)) \mid x \in A\},$$

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 co-ordinates.

The graph of a function allows us to translate between algebra and pictures or geometry. A function of the form  $f(x) = mx + b$  is called a **linear function** because the graph of the corresponding equation  $y = mx + b$  is a line. A function of the form  $f(x) = c$  where  $c$  is a real number (a constant) is called a **constant function** since its value does not vary as  $x$  varies.

**Example** Draw the graphs of the functions:

$$f(x) = 2, \quad g(x) = 2x + 1.$$

**Graphing functions** As you progress through calculus, your ability to picture the graph of a function will increase using sophisticated tools such as limits and derivatives. The most basic method of getting a picture of the graph of a function is to use the join-the-dots method. Basically, you pick a few values of  $x$  and calculate the corresponding values of  $y$  or  $f(x)$ , plot the resulting points  $\{(x, f(x))\}$  and join the dots.

**Example** Fill in the tables 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.

$x$	$f(x) = x^2$
-3	
-2	
-1	
0	
1	
2	
3	

$x$	$g(x) = x^3$
-3	
-2	
-1	
0	
1	
2	
3	

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

# Lecture 11 Graphs Of Functions University Of Notre Dame

**Joseph P. S. Kung**



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**Commutative Algebra** Irena Peeva, 2013-02-01 This contributed volume brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Algebraic Combinatorics Hyperplane Arrangements Homological Algebra and String Theory The book aims to showcase the area especially for the benefit of junior mathematicians and researchers who are new to the field it will aid them in broadening their background and to gain a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

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