

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	

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Ying-Ying Zheng



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