Limits and Derivatives

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Introduction

The chapter limits and derivatives gives us an introduction to a new branch of mathematics "Calculus". Just like Geometry is the study of shapes. Calculus is a branch that deals with the "change". The idea of Calculus was put forward by **Sir Issac Newton**

What are limits ?

Limits the word itself means some maximum point or a boundary , We can easily relate the same word meaning into mathematics. Limits in math describes the behavior of the function close to a particular x value. The value of x will not necessarily give the value of x.

We denote it like this,

$\lim_{x \to 5} = f(x) = 15$

we read this as limit "x" tends to 5.

Let's make it more clear

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