

## Teaching Limit Concept in Calculus with Technology

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This is the interim report of my project.

My project is “Teaching the Limit Concept in Calculus with Technology” which is divided into three parts and will be completed in 2008. The 1<sup>st</sup> part is about “Limit of functions in one variable and plan to complete in summer 2006.

For the 1<sup>st</sup> part, I completed to develop the instructional material and used in classroom one time. Attached is this instructional material in 2 versions: Mathcad worksheet and PDF. Since I already give instruction in these files, I just want to mention following in addition.

1. I divided the teaching of limit into 2 steps: teaching geometric definition of limit and analytic definition of limit.
2. These materials are made by a mathematical software “mathcad”. I used the following functions: 2D graph; Trace; Animation. These files are interactive or modula and it is easy to adopt.

### Links:

- [Mathcad – Analytic Definition](#)
- [Geometric definition of limit of function at a point \(1\)](#)
- [Geometric definition of limit of function at a point \(2\)](#)
- [Geometric definition of limit of function at a point \(3\)](#)

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