University of Toronto at Scarborough
Department of Computer and Mathematical Sciences

MAT A31 **Fall 2019**

Assignment # 3

You are expected to ***work on this assignment*** prior to your first tutorial in the week of ***September 23rd, 2019***. You may ask questions about this assignment in this tutorial.

At the beginning of your tutorial in the **week of September 30th, 2019** you will be asked to **hand in** the assignment. NO ASSIGNMENTS will be accepted at the end of the tutorial or after the tutorial. Assignments MUST BE submitted ONLY in the tutorial you are registered for.

Midterm Test will take place on Friday, October 11th, 2019 from 3pm to 5pm in BV260, HL170, HLB 101.
The room assignment will be posted in the week of October 7th.

A. Readings: 1. Laura Taalman, Peter Kohn 'Calculus, Single variable'
Chapter 1: *Limits* Sections 1.1-1.2

B. Problems:

Focus of Assignment - precise (geometric) definition of Limit.

1. Ch 1.1: ## 2, 4, 7, 8, 30, 36, 54, 60, 64, **78**, **80**.
2. page 97: Logical quantifiers (5 questions) rewrite using math symbols $\forall, \exists, |, \Rightarrow, \Leftrightarrow, \in, \notin, \cup, \cap$
4. Ch 1.2: ## 1(b,d,f,g), 6, 8, 10, 12, 14, **16**, 20, 22, 30, 32, 34, **44**, 48, 56, 58, 60,**70.**