

**University of Toronto at Scarborough
Department of Computer and Mathematical Sciences**

MAT A31

Fall 2019

Assignment # 2

You are expected to ***work on this assignment*** prior to your tutorial in the week of ***September 16th, 2019***. You may ask questions about this assignment in this tutorial.

DO NOT hand in this assignment.

At the beginning of your tutorial in the **week of September 23rd, 2019** you will be asked to **write Quiz 1 based on A1 & A2**.

The quiz **MUST BE** written **ONLY** in the tutorial you are registered for.

A. Readings:

1. Laura Taalman, Peter Kohn 'Calculus, Single variable'
Chapter 0: *Functions and Precalculus*. Section 0.4,0.5.
2. Week 2. Complete Lectures.
3. Week 2/3 Complete Lectures.

B. Problems:

1. Ch 0.5 ## 8, 9, 10, 21, 23, 27, 28, 39, 48, 50,
52, 56, 63, 73, 75, 79, 80, 84, 86.
2. Ch 0.4 ## 3, 8, 9, 10, 12, 13, 14, 17, 22, 23, 36, 42, 45, 49, 47,
67, 69, 86, 58, 62, 90, 91, 94.

C. Problems:

- | | |
|----------------------------------|--------------------------------|
| 1. $2\sin^2 x + 3\cos x - 3 = 0$ | 3. $\sec^2 x - 2\tan x = 4$ |
| 2. $2\sin^2 x - \sin x - 1 = 0$ | 4. $\cot x \cos^2 x = 2\cot x$ |