Monday, September 17

Reading: *Anton, Bivens & Davis* Section 2.1

Class 8: Introduction to Limits

We shall introduce the concept of limit, conceptually together with the notion of successive approximation. The formal definition of limit is central to the notion of derivative, which is the central concept in the course, so limit is our first Calculus-specific concept.

Homework 7: *Anton, Bivens & Davis* §2.1: 1, 2, 3, 4, 7, 10, 14, 15

Wednesday, September 19

Reading: *Anton, Bivens & Davis* Section 2.2

Class 9: Computing Limits

The rules for how to compute limits for particular kinds of expressions will be formalized. This will extend the number of limits that we will be able to compute the value of without resorting to numerical calculations.

Homework 8: *Anton, Bivens & Davis* §2.2: 1, 2, 6, 7, 15, 16, 17, 32

Thursday, September 13

Lab 3: Limits and Continuity

Quiz 3 Limits and Continuity in Lab.

Homework 6, 7 & 8 Due in the Math 110 Course Box by 5:00 pm Thursday September 20

Friday, September 21

Reading: *Anton, Bivens & Davis* Section 2.3

Class 10: Infinite Limits

Today we will look at what happens when limits involve infinity as well as interpreting graphically the meaning of limits at infinity and infinite limits (horizontal and vertical asymptotes). The hope is to develop some mathematical intuition which assists with the calculation of limits which involve rational functions.

Homework 9: *Anton, Bivens & Davis* §2.3: 1, 2, 3, 4, 5, 9 ,10, 11, 21, 22, 40