**Homework Assignment 5**

Assigned Tuesday October 8; due Friday October 18, 2PM at SS 1071

web version: http://www.math.toronto.edu/~drorbn/classes/0203/157AnalysisI/HW05/HW05.html

**Required reading**

All of Spivak Chapter 6.

**To be handed in**

From Spivak Chapter 6: 1(i)-(iii), 3, 12, 14

**Recommended for extra practice**

From Spivak Chapter 6: 1(iv), 4, 10, 13, 16 parts (a) through (c).

**Just for fun**

Solve Spivak’s problem 16 parts (d) and (e) and also the following problem:

**Problem.** Could there be a non-constant continuous function defined on the entire “unit” interval \([0, 1]\), which is constant on certain open subintervals of \([0, 1]\) whose total length is exactly equal to 1? (Obviously, I wouldn’t be asking this question if the answer wasn’t ____).