Homework 5
due Tuesday, October 17

A. Read: Sections 4.4, 3.4.

B. Hand in:

1. pages 193-197, exercises 5 (prove or give counter-examples), 13, 21 (see also 10), 43.

2. pages 106-107, exercises 2 (this is Brouwer’s fixed point theorem in $R^1$), 4(a,c), 13 (provide an interval on which the function you have to define is a contraction), 20 (a).


D. Practice (do not hand in):

- pages 193-197, exercises 2, 3, 8, 36.

- pages 106-107, exercises 2, 4, 7, 12.