Math 3341 **Homework 3** **Spring 2012**

The assignment is due at the beginning of class on February 16, 2012.

Problem 1 (10 points) Exercise 2.3.10

Problem 2 (10 points) Exercise 2.4.2

Problem 3 (10 points) Exercise 2.5.6

Problem 4 (10 points) Let X be a non-empty set that is bounded from above. Show that there is a sequence (x_n) of elements in X that converges to $\sup X$.