

**MATH 104-1: Introduction to Analysis**

Homework #2

*Due September 9, 2015*

All problems are from Ross, *Elementary Analysis*, unless stated otherwise.

1. Ross Exercise 3.3
2. Ross Exercise 3.4
3. Ross Exercise 3.6
4. Ross Exercise 3.8
5. Ross Exercise 4.8
6. Ross Exercise 4.10
7. Ross Exercise 4.14
8. Ross Exercise 5.6 (in this problem, notice that inf and sup maybe  $\pm\infty$ )