Name and Student ID's: _

Homework 8, Advanced Calculus 1

- 1. Rudin Chapter 7 Exercise 1. (Note: Given sequence of functions $f_n : X \to Y$, the sequence is uniformly bounded if there exist M > 0 so that $|f_n(x)| \leq M$ for all n and $x \in X$.)
- 2. Rudin Chapter 7 Exercise 2
- 3. Rudin Chapter 7 Exercise 3
- 4. Rudin Chapter 7 Exercise 4
- 5. Rudin Chapter 7 Exercise 5
- 6. Rudin Chapter 7 Exercise 6
- 7. Rudin Chapter 7 Exercise 7