

Names and Student IDs: _____

Homework 9 Calculus 1

1. Rudin Chapter 5, Problem 3.
2. Rudin Chapter 5, Problem 5.
3. Rudin Chapter 5, Problem 6. (Hint: use MVT).
4. Rudin Chapter 5, Problem 9.
5. Rudin Chapter 5, Problem 13, (a) - (d).
6. Prove that
 - (a) $\sin x \leq x \forall x \geq 0$.
 - (b) $x \leq \tan x \forall x \in [0, \frac{\pi}{2}]$.
 - (c) $x \geq \log x \forall x > 0$.
7. Salas 3.2: 24, 30, 38, 56.
8. Salas 3.5: 20, 24, 66.
9. Salas 3.6: 28, 40, 50.
10. Salas 4.1: 6, 13, 15, 20.
11. Salas 4.2: 10, 19, 35, 56.