MATH 1710.200 - Homework 8 and Exam 2 Review

Due: 11/4/16

1. To review for the exam, for a function f, you should know how to
   (a) find the critical points of f and the intervals where f is increasing/decreasing.
   (b) find the inflection points of f and the intervals where f is concave up/down
   (c) find the local and absolute extrema of f
   (d) sketch a graph of f based on the previous information and also the vertical asymptotes, horizontal asymptotes, and slant asymptotes of f.
2. To review for the exam, you should be familiar with the optimization techniques of section 4.4
3. To review for the exam, you should be familiar with the theorems and proofs of section 4.6
4. To review for the exam, you should be familiar with the different applications of L'Hopital's rule from 4.7 (will be covered in class on Monday)
5. 4.4 # 5-8, 21, 24-27, 33, 43, 49
6. 4.6 # 7, 8, 17, 18, 26, 27
7. 4.7 # 13-16, 25-30, 35-38, 41-45, 47-49, 51, 55-58