Section 2.8

1. Know the definitions of the following terms
   (a) strictly increasing function
   (b) strictly decreasing function
   (c) local maximum
   (d) local minimum
   (e) concave upward
   (f) concave downward
   (g) inflection point

2. Write answers to the following questions in your notebook. (Wed Oct 9)
   Complete the following sentences:
   (a) A function is strictly increasing if...
   (b) If \( f'(x) > 0 \) on an interval, then...
   (c) If \( f''(x) < 0 \) on an interval, then...
   (d) A function has a local max if...
   (e) True or false: If \( f \) is strictly increasing then \( f'(x) > 0 \).
   (f) True or false: If \( f'(x) \geq 0 \) then \( f \) is strictly increasing.

Homework
   (a) WebAssign Problems: See WebAssign HW6
   (b) Hand-Written Problems to turn in: 2.8: 2, 12, 22 (For 2 and 12: Explain your reasoning in complete sentences. For 22 just draw the graph.)