Calculus I, 21-111 Homework # 2 Due Thursday, February 1

Complete all exercises.

Textbook exercises:

- Section 1.1 # 6, 22, 34, 49, 58
- Section 1.2 # 5, 6, 7, 8, 38e
- Section 1.4 # 30, 49, 50, 53, 54

Additional exercises:

- 1. Suppose f(2) = 4 and f'(2) = 7. About how big would you expect f(2.001) to be? What about f(1.999)?
- 2. Give an example of a function f such that f'(x) = 0 for all values of x, and sketch a graph of this function.
- 3. Give an example of a function f such that f'(x) = -3 for all values of x, and sketch a graph of this function.
- 4. True or false (and explain): If f'(2) > g'(2) then f(2) > g(2).
- 5. True or false (and explain): If f'(x) > 0 for all values of x, then f(2) > f(1).