

Homework 9 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

Due Wednesday, October 19

Note: We will only spend a very little bit of time on L'Hospital's rule. There are four questions about it, but none of them will appear on the exam.

- (a) What does the first derivative tell you about the shape of a graph?
- (b) What does the second derivative tell you about the shape of a graph?
- (c) Stewart, Ch. 4.3; 5, 6, 19, 21, 30-32, 61-65.
- (d) Stewart, Ch. 4.3; 24-29, 35-50; even required, odd recommended.
- (e) What does L'Hospital's rule say?
- (f) Stewart, Ch. 4.4; 5, 9, 10.
- (g) (due October 28 – you can get a head start if you like!) Stewart, Ch. 4.5; 1-10, 31-40; even required, odd recommended.