Due Friday, October 7

(a) Stewart, Chapter 3 Review (pp. 262-263), 15-40, 57-61, 65-66, 83-84; even required, odd recommended.

(b) Stewart, Ch. 3.9, 11-34; even required, odd recommended. You do not have to follow Stewart’s (a)-(e) exactly (although this is a very good idea!) but with these problems especially, you should explain what you are doing in complete sentences and draw a picture if appropriate.

(c) Define the terms local maximum, local minimum, absolute maximum, absolute minimum, and critical number.

(d) Describe how to find all the critical numbers of a function.

(e) Describe how to find all the local maxima of a function.

(f) (Trick question. Explain why.) Explain how to find all the absolute maxima of a function.

(g) Stewart, Ch. 4.1, 7-10, 13-14, 21-28, 47-60; even required, odd recommended.