W 9/23   §2.1
R 9/24   Problems, §2.1, lines, Appendix B pp. A10–A13, finish Appendix C if necessary
F 9/25   §2.2, Limit of a function
M 9/28   §2.3, Calculating limits
T 9/29   Problems, §2.2 and §2.3
W 9/30   §2.4, Quiz 2.1,2.2
R 10/1   Problems, §2.4
F 10/2   Fall break
M 10/5   §2.5, Limits involving infinity
T 10/6   Problems, §2.5
W 10/7   §2.6 Tangents, velocities and rates of change
R 10/8   Problems, §2.6
F 10/9   §2.7, Derivatives
M 10/12   §2.8, The derivative as a function
T 10/13   Problems, §2.7, 2.8
W 10/14   §2.9, Linear approximation
R 10/15   Problems §2.9
F 10/16   §2.10, What does f' say about f, quiz §§2.7–2.9
M 10/19   Review
T 10/20   Review, test at night, 7:30pm-9:30pm room CB114

The first written homework assignment for chapter 2 will be due on Wednesday, 30 September at 10am. The assignment is §2.1 #6, §2.2, #8 and #18. In §2.2, #18c) try 10^-k, for $k = 1, 2, \ldots$ until you obtain zero.

There is a primitive web site for this course at www.ms.uky.edu/~rbrown/ma113. All handouts for this course will be available in postscript, pdf and LaTeX source. LaTeX files are intended to be run through a typesetting system to produce mathematical symbols, however, they consist of plain text and should be understandable. I have recently changed the .tex extension to .txt and the LaTeX files should now display as text in your browser.

1. Work problems #1, 3, 5, 9 in section 2.1 of Stewart.

2. Problems #1–3, section 2.2 of Stewart.

3. Try to guess the limit
$$\lim_{x \to 0} \sin(\pi/x).$$
   Hint: In addition to trying numerical values, look at a graph.

4. Read about lines on pages A10–A13 in Appendix B. Work problems 6, 13, 17, 19 and 45 from Appendix B.

5. Finish problems from Appendix C, if you have not already done so.