Math 305, Problem Set #4
(due by email Friday, 10/9/09, 10:30 a.m.)

Abbott, section 2.4, problems 1, 2, and 5(a).
Abbott, section 2.5, problems 2, 3, and 5.
Abbott, section 2.6, problems 3.
Extra problem A: Show that if $a_n \geq 0$ for all $n$ and $a_n \to 1$, then $\sqrt{a_n} \to 1$.
(Hint: Use the identity $x - 1 = (\sqrt{x} - 1)(\sqrt{x} + 1)$.)

Please don’t forget to write down who you worked on the assignment with (if nobody, then write “I worked alone”), and record how much time you spent on each problem (this doesn’t need to be exact).