Math 142, Problem Set #7
(due **in class** Fri., 3/28/14)

Note: To get full credit for a problem, it is not enough to give the right answer; you must explain your reasoning.

Stewart, section 7.1, problems 10, 12, 18, 36. (Use only techniques from section 7.1 and chapters 1–6.)

Stewart, section 7.2, problems 12, 32, 34, 47, 49. (Use only techniques from section 7.2 and chapters 1–6. In particular, you are not supposed to derive the answer using Pappus' Theorem, since that is not covered until a later section – though if you want to use Pappus' Theorem to check your answer, that's fine. For problem 32, do not use the result of problem 31.)

Stewart, section 7.3, problems 2, 8, 40, 42, 43. (Use only techniques from section 7.3 and chapters 1–6. For problem 43, where Stewart writes "Use the figure to show that $V = ...$," you are supposed to use the disk method.)

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