Assignment 3, due February 10

Sections refer to sections in Stewart.

Reread section 13.2, section 15.8 through Example 2 and section 15.9 through Example 2. Read sections 13.3-13.4 and section 14.1.

Section 13.2 #17,25,34,35
Section 13.3 #7,20,22,33,48,50,53 In #7 use MATLAB (using a method you learned in the MATLAB portion of Assignment 2) instead of a calculator.
Section 13.4 #9,16,19,22,29
Section 15.8 #10(b)
Section 15.9 #1(b),3(a),7,12

Draw Figure 1 of Section 15.9 neatly by hand. Give equations for x,y,z, and r in terms of ρ,θ,φ. Take care that lines parallel in the text look approximately parallel in your drawing also. Do not look at the book while actually drawing and writing.

On this and future MATLAB assignments you may work in a MATLAB group. The group should turn in only one assignment, with the names of all members of the group on it. Read 2. Lines and Planes. Do problems 1 and 2.

MATLAB tip: In problem 2 you will have to solve 3 equations in 3 unknowns. If the names of the equations are eqn1, eqn2, and eqn3, you can do this with the Matlab command solve(eqn1,eqn2,eqn3).