HW 5; Due Mon. 3/6

1. Problem 9.14 (4th Ed.); 9.13 (3rd Ed.).

2. Part of problem 9.17 (4th); 9.16 (3rd),
  A) Set up the boundary condition equations (iii) and (iv) from 9.101, with appropriate definitions.
  B) From part A, obtain the Fresnel equations for E_0R and E_0T; don't bother sketching.
Don't worry about the rest of the problem.

3. Problem 9.35 (4th edition), (9.33, 3rd edition). You'll need to use spherical coordinates, of course!

4. Problem 9.38 (4th edition), (9.36 3rd Ed.). Note, this is pretty much just an analysis of the result of the much harder problem, 2 problems earlier. Just use that other result: don't derive it!