Rainbow problem set:

1. Imagine that the raindrops are spherical. Calculate the maximum backscattering angle as a function of the index of refraction for the primary rainbow. Check your results with the known values in the textbook.
2. Calculate the same thing for the secondary reflection. Check your values with the known values in the textbook. See the textbook for a picture of the secondary reflection.
3. Which way are the colors of the secondary rainbow with respect to the primary?