CHE 310 – 002 & 003 Lecture Homework #20

Due: Friday, March 8, 2019, 10:00 am.

- 1. Provide structures for the four ¹H NMR spectra on the following pages.
- 2. Read the section in the text about ¹H NMR of alcohols (within section 13.13) and answer the following:
 - a) Is spin-spin splitting usually observed between an alcohol proton and protons on adjacent carbons?
 - b) What happens to an OH peak in an a ¹H NMR spectrum when D₂O is added?
- 3. Assign the absolute configuration (R/S) to each chiral center in the molecule below.







