

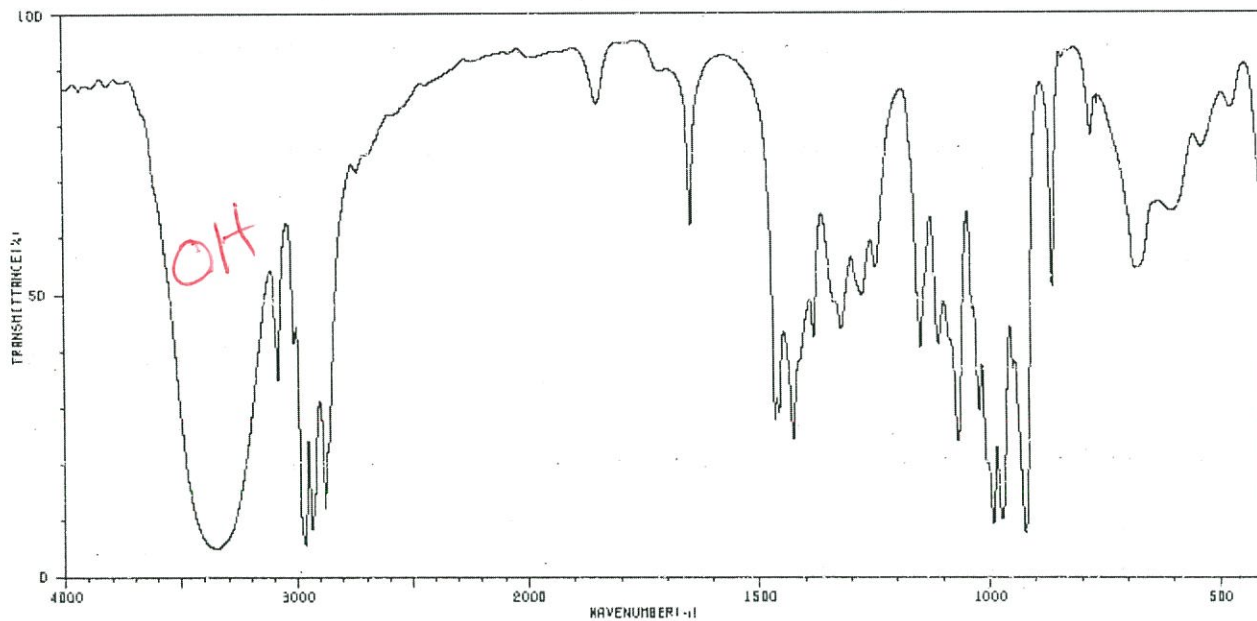
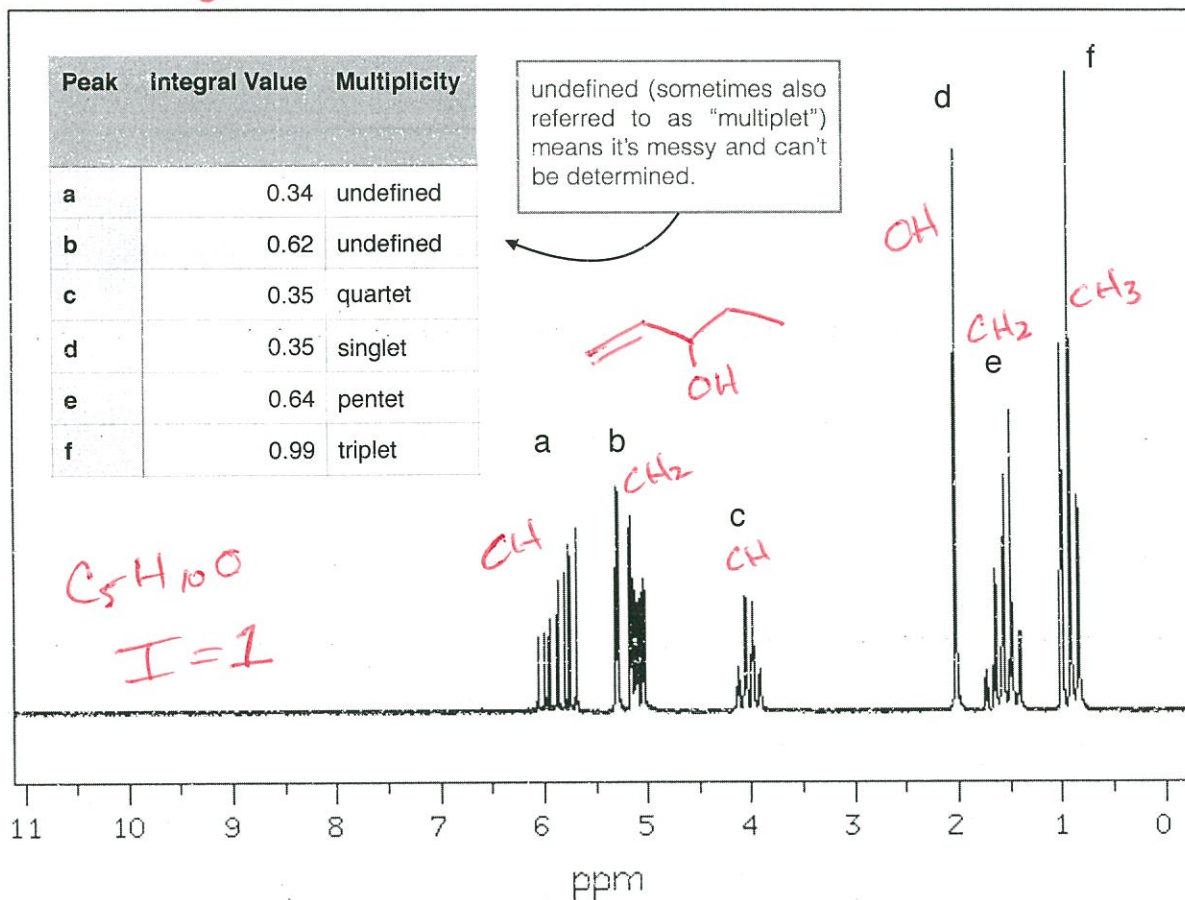
Organic Chemistry II

CHM 224

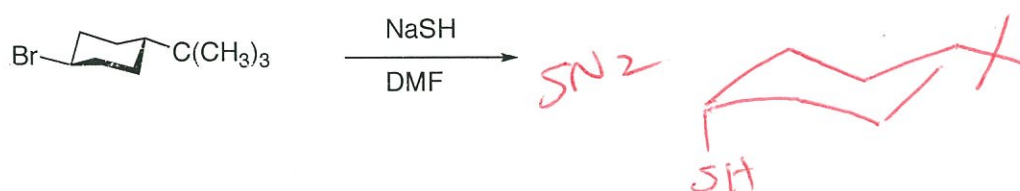
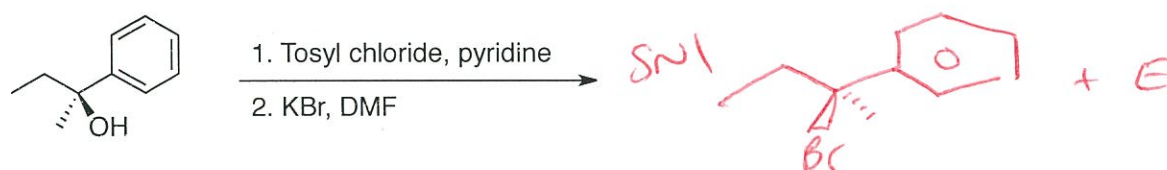
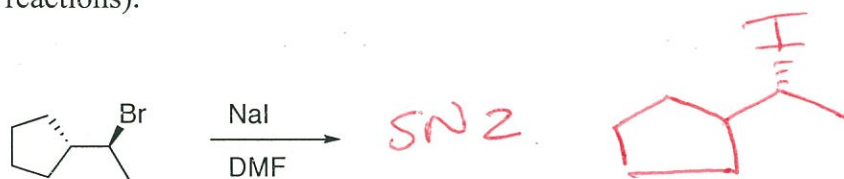
Homework

Name: Key

Due Date: 9/29/17



2. Draw the structure of the major organic product(s) for each of the following reactions (no mechanism required). Indicate the stereochemistry for each reaction when appropriate. Write the name of the reaction mechanism to the right of each structure (these are all either S_N1 or S_N2 reactions).



3. An old bottle 2-bromobutane was found in a lab; the bottle cap was missing and thus the chemical was exposed to water (from the atmosphere) at room temperature for an extended period of time. There are several possible products of the reaction between 2-bromobutane and water; the most common are shown in the reaction scheme below. Using the spectra on the following page, which is the most likely material in the bottle? Circle the chemical (on the scheme below) that you think the bottle contains.

