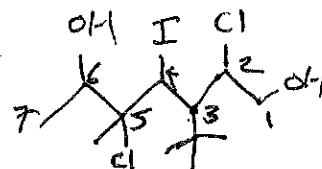
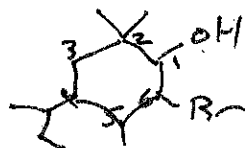
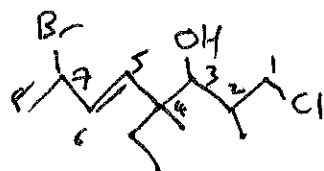


Tuesday, Feb. 16, 2021
Exam #2

Name: Ky

1. Name the following molecules:



(E)-7-bromo-1-chloro-4-ethyl-2,4-dimethyl-5-octen-3-ol

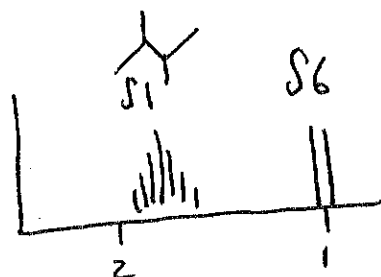
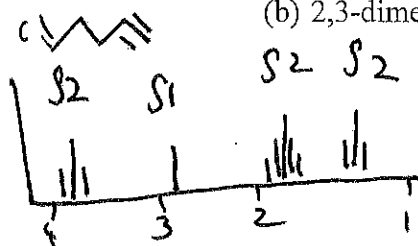
6-bromo-4-sec-butyl-5-chloro-2,2-dimethylcyclohexanol

3-tert-butyl-2,5-dichloro-4-iodo-5-methyl-1,6-heptediol

2. Draw the NMR spectrum of...

(a) 5-chloro-1-pentyne

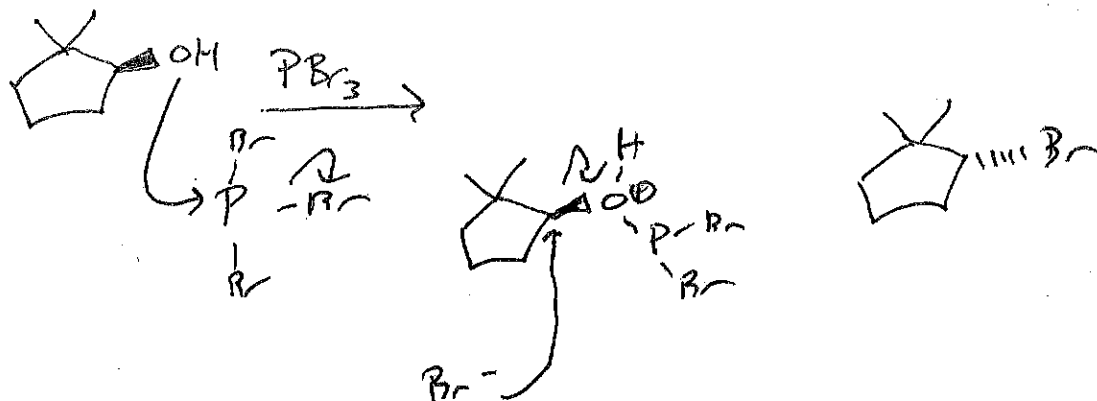
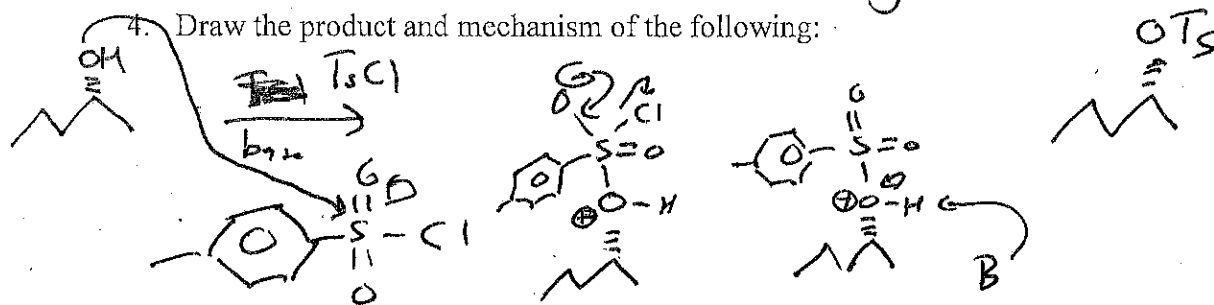
(b) 2,3-dimethyl butane



3. A peak labeled as "D₂O" actually isn't D₂O. What is it? And why is it labelled D₂O?

It's the H from an alcohol. It's called D₂O b/c, if placed in D₂O, the alcohol H will gradually exchange with D from D₂O, causing the D₂O peak to eventually disappear.

4. Draw the product and mechanism of the following:



5. Complete the following reactions:

