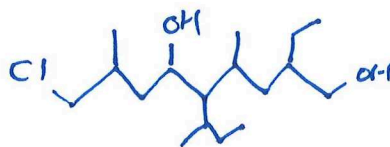
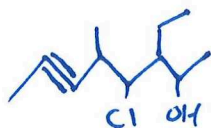


Tuesday, May 25<sup>th</sup>, 2021  
Exam #2

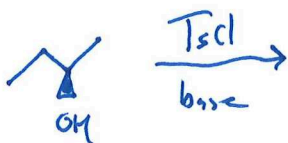
Name: \_\_\_\_\_

1. Name the following molecules:



2. Within the PBr<sub>3</sub> mechanism, how many S<sub>N</sub>2 mechanisms take place? Would a chiral compound undergoing this reaction invert, retain, or racemize?
3. Draw the NMR spectra of the following:  
(a) Pentanal (a straight-chain 5-carbon aldehyde)  
(b) 2-iodo-3-methyl butane

4. Draw the product and mechanism of the following:



5. Complete the following reactions:

