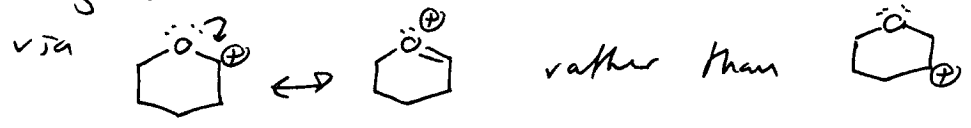
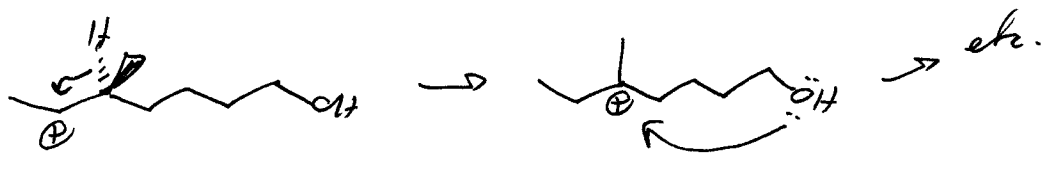


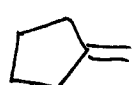
2. rxn goes




resonance stabilization by oxygen  
 is apparently more important than  
 inductive destabilization by O-  
 an adjacent O can always stabilize  
 a carbocation.

3. like the one on the non-graded part, but this one involves  
 a cation near.



4. (a) make , hydroborate, then Williamson ether (deprotonate the -OH, then CH<sub>3</sub>I)

(b) Make , then hydroborate