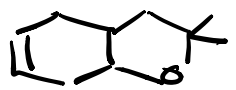
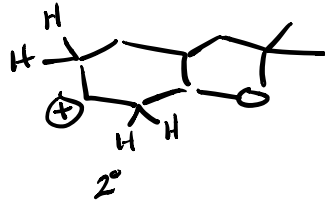
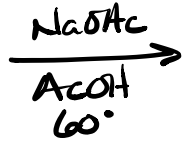
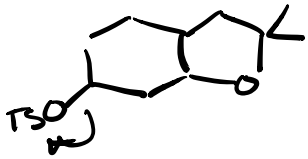
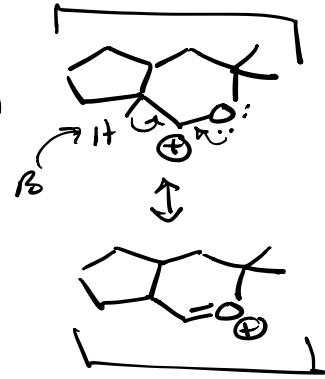
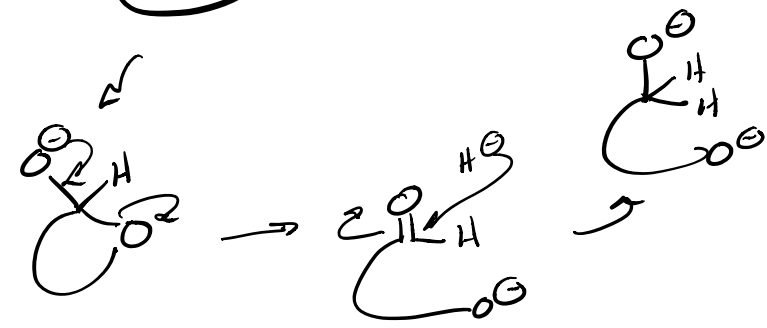
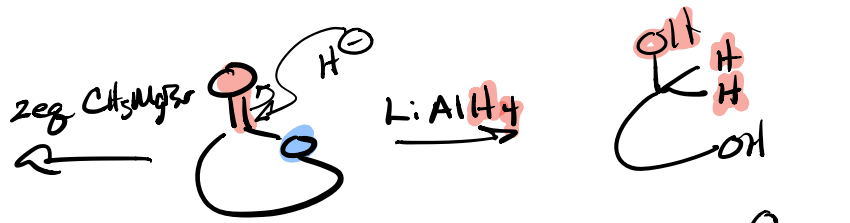
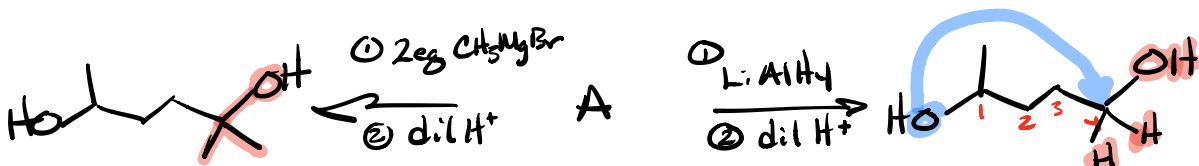


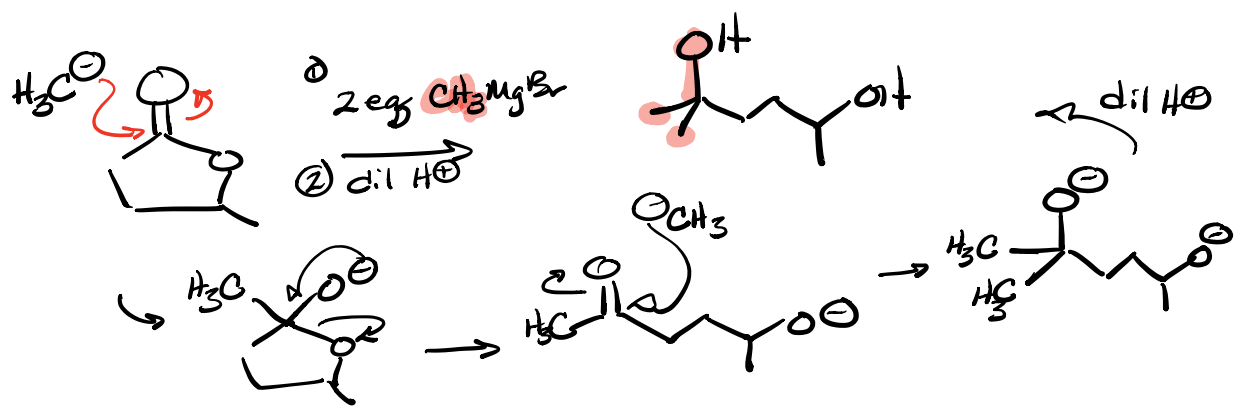
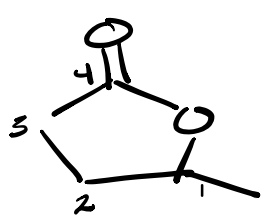
\rightarrow 1,2-alkyl shift

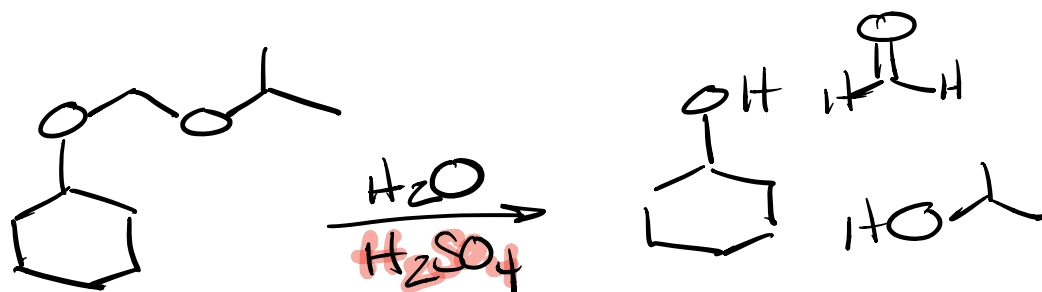


Molecule A is a cyclic ester which gives the two diols under the two different conditions.
Give the structure of A.



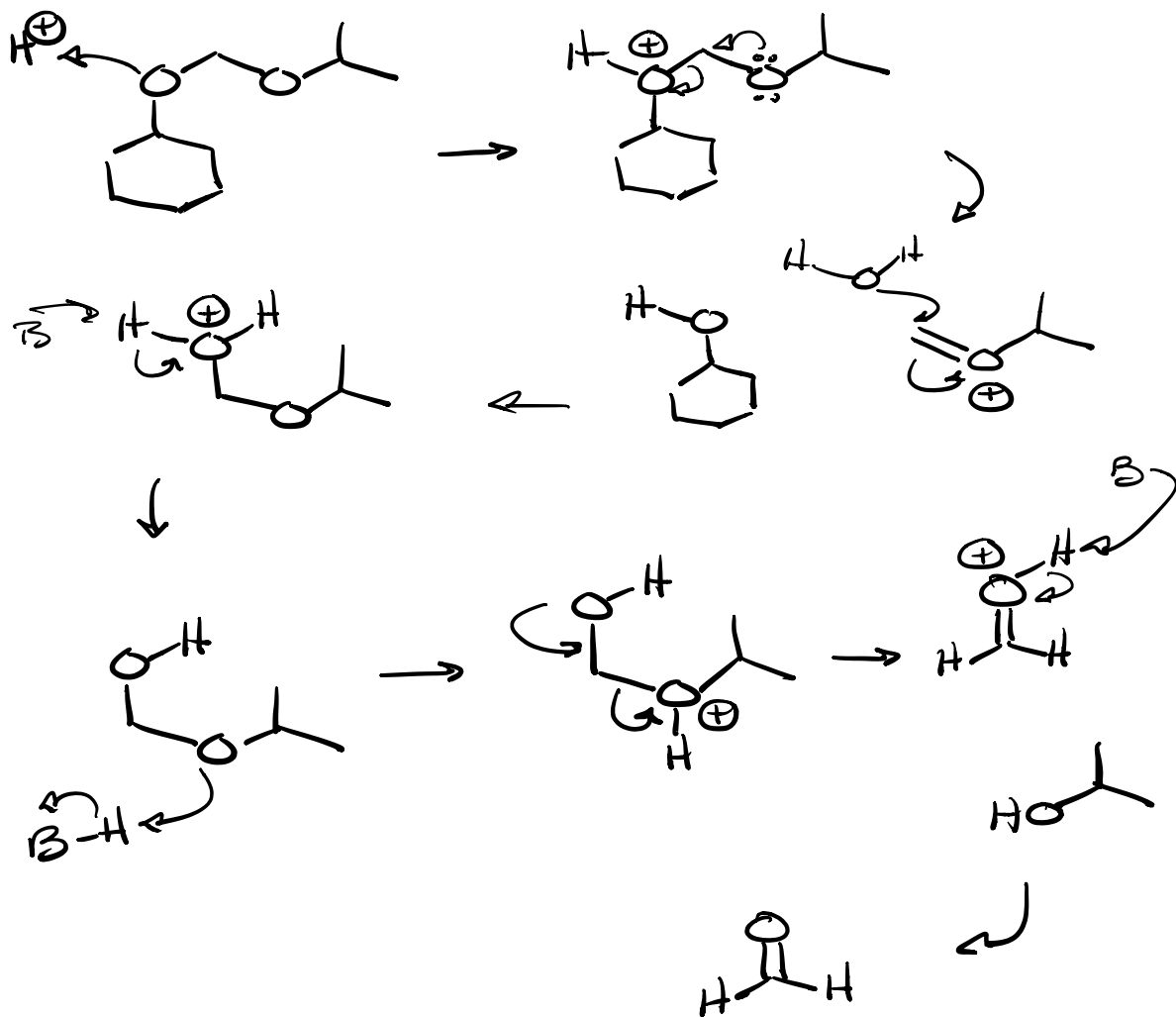
A



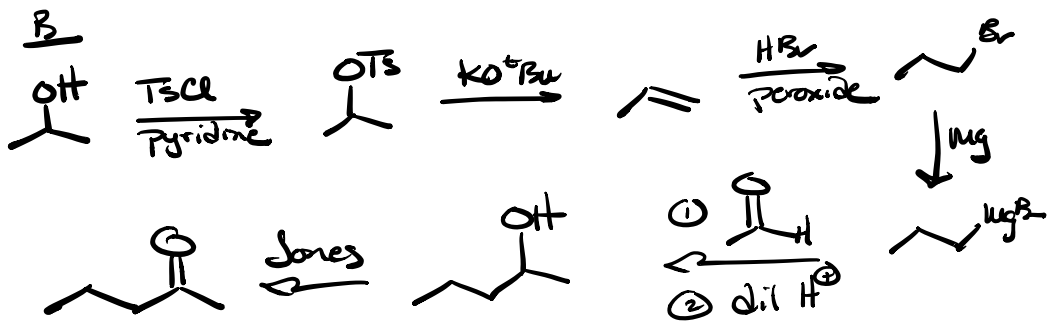
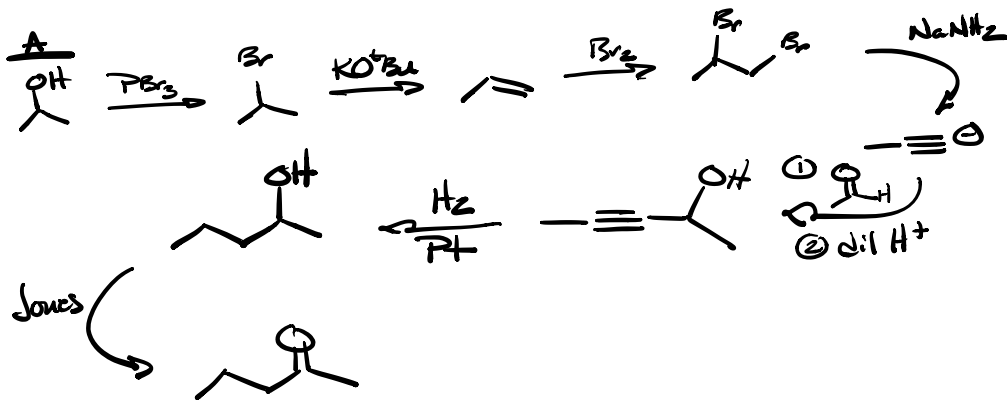
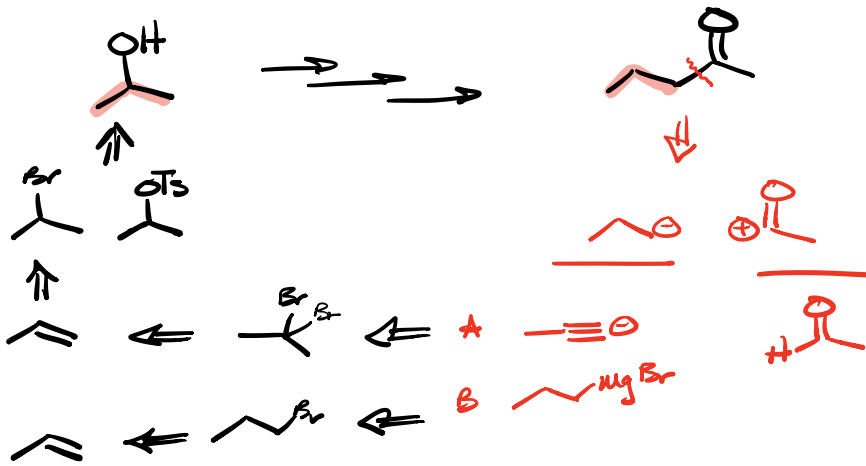


Give the mechanism

Acid cat \Rightarrow 1st step protonation



Synthesis



Scheme type

