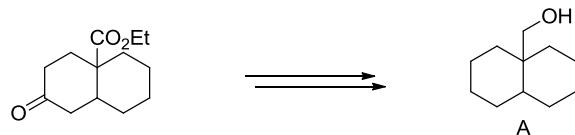


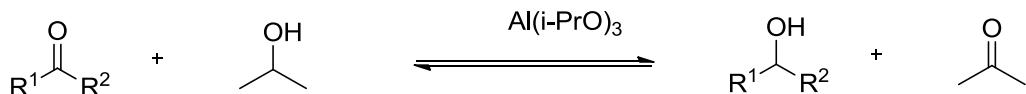
Problems – Set 6: Carbonyl compounds (part 2)

Problem 1

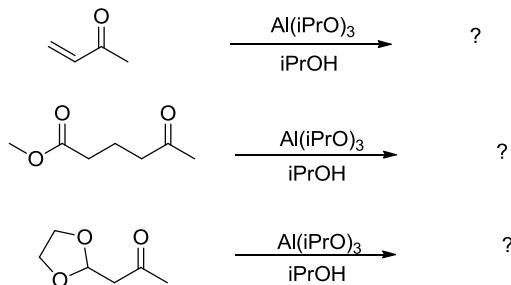
Give possible synthetic pathway for compound **A** from ethyl 2-oxodecahydronaphthalene-4a-carboxylate as well the detailed mechanism of these transformations (think about the reduction method seen in class)



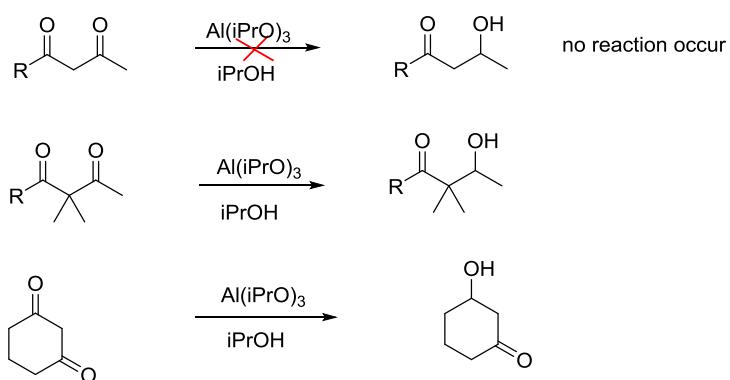
Problem 2 Meerwein-Ponndorf-Verley Reduction



- What is the name of reverse reaction, the oxidation of alcohol to aldehyde or ketone?
- Give detailed mechanism, draw clearly the transition state?
- How to move the equilibrium in desired direction?
- Give the product for the following transformations?



- How to explain the following observations:



Problem 3

Suggest transformation(s) that would be suitable for each of the following selective or partial reduction.

