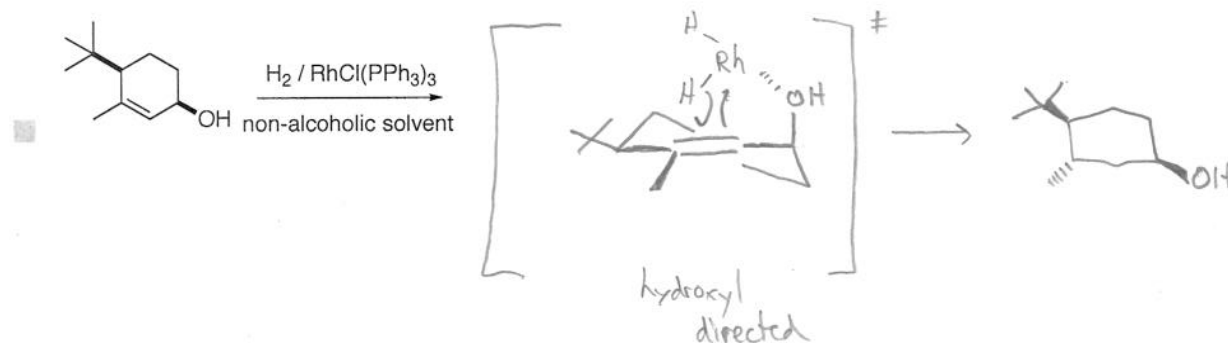
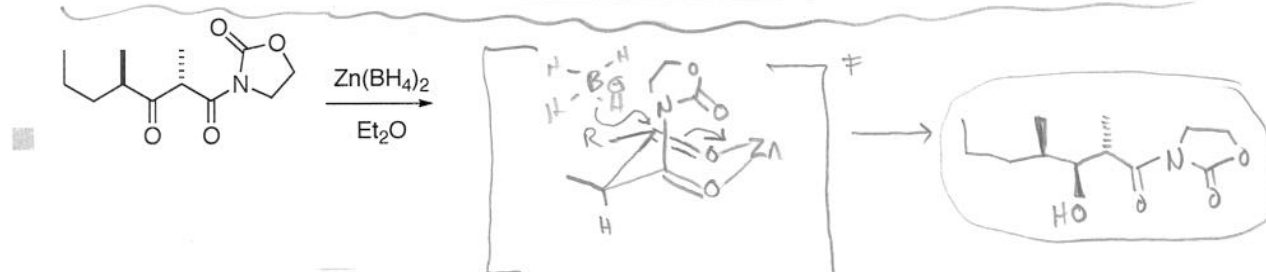
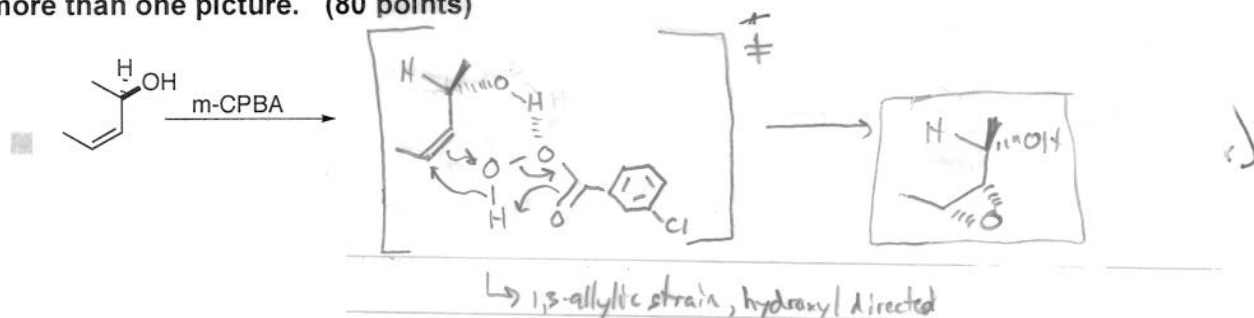


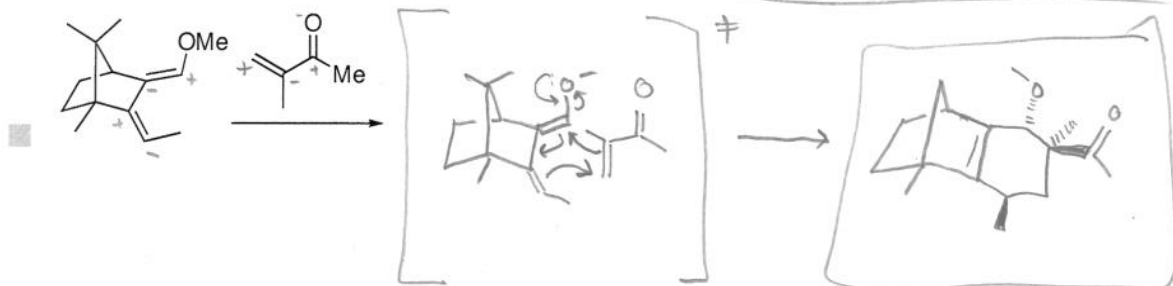
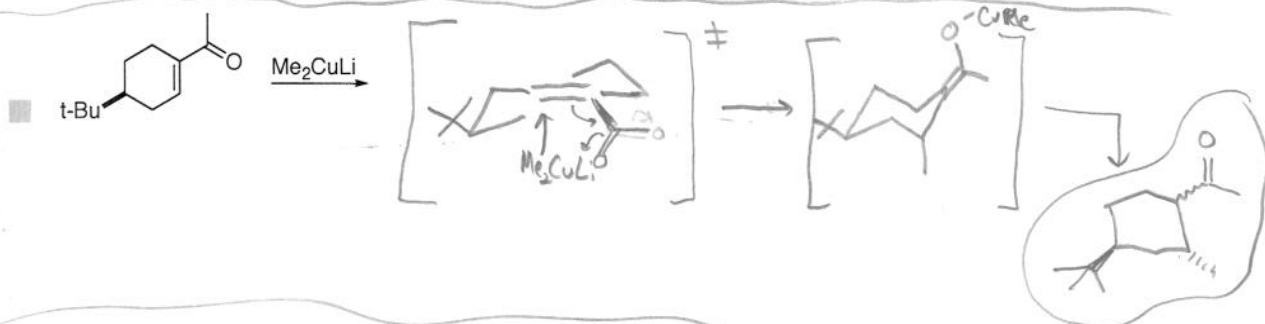
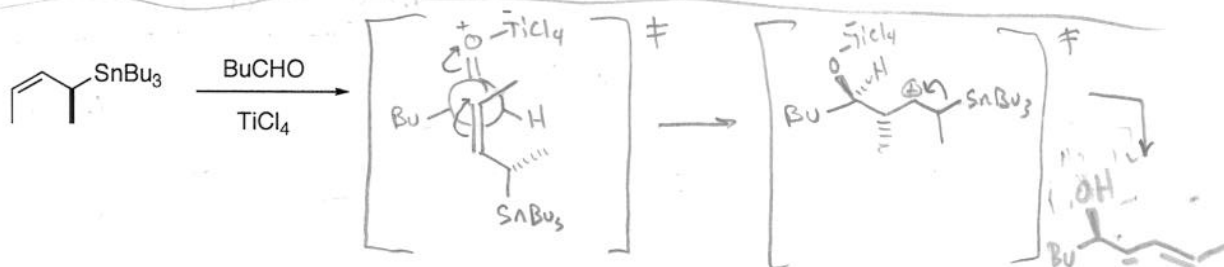
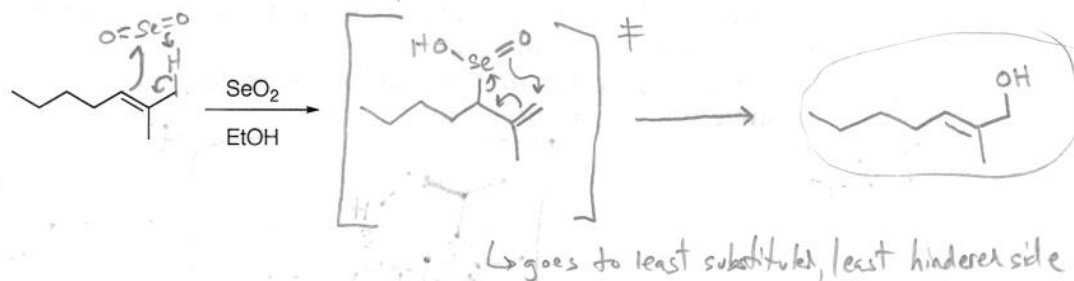
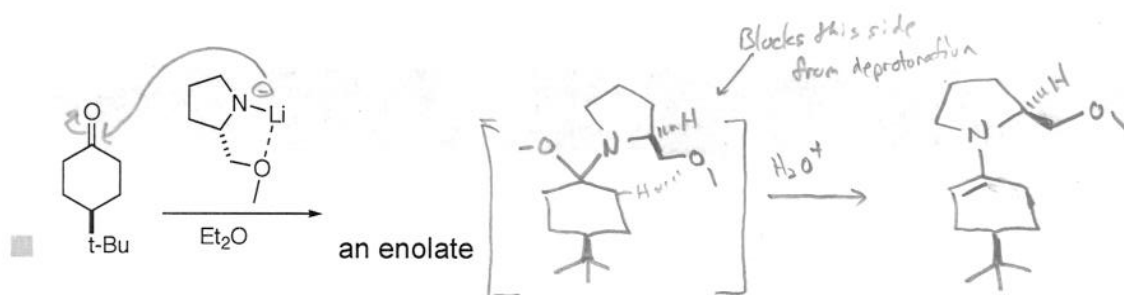
CHEM 233 WINTER 2005 TEST 1

Your
name: _____

Date: _____

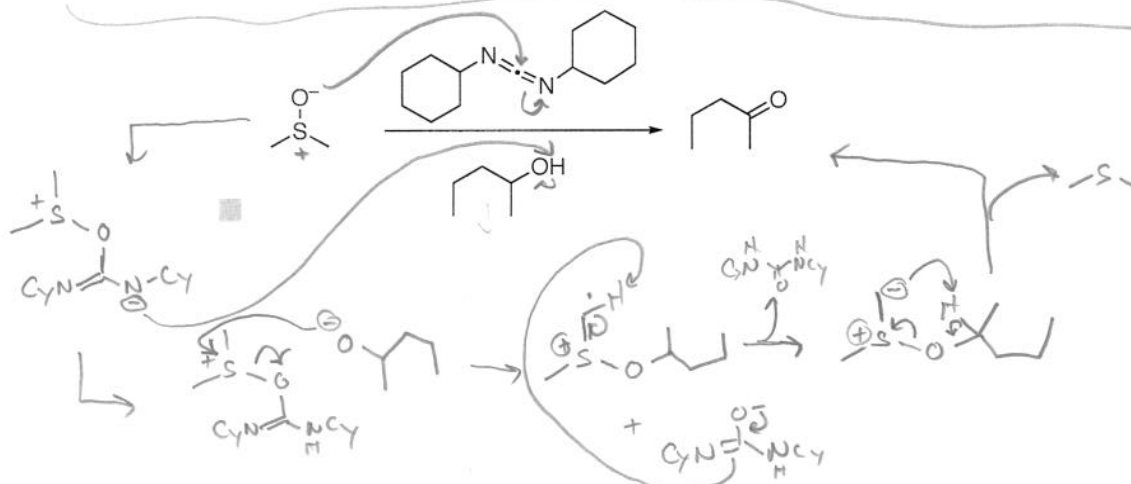
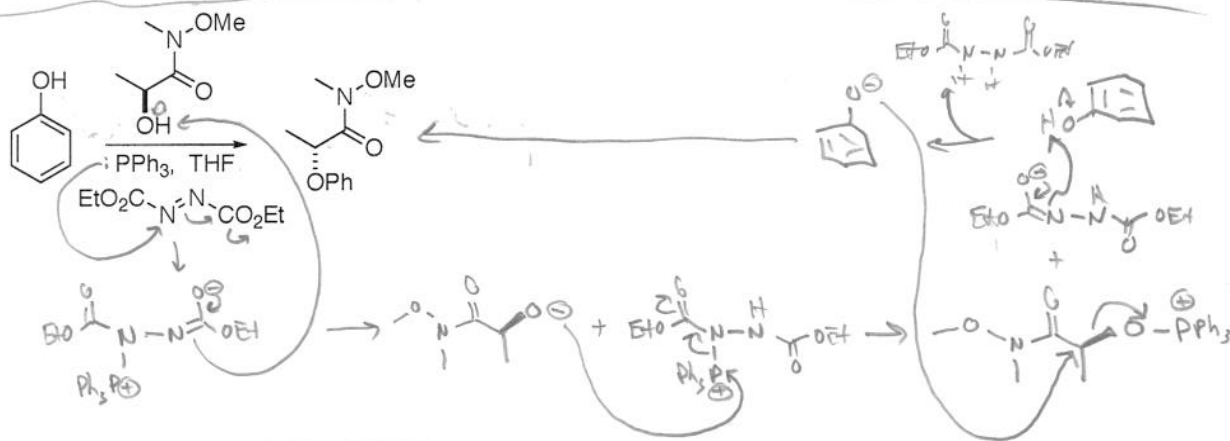
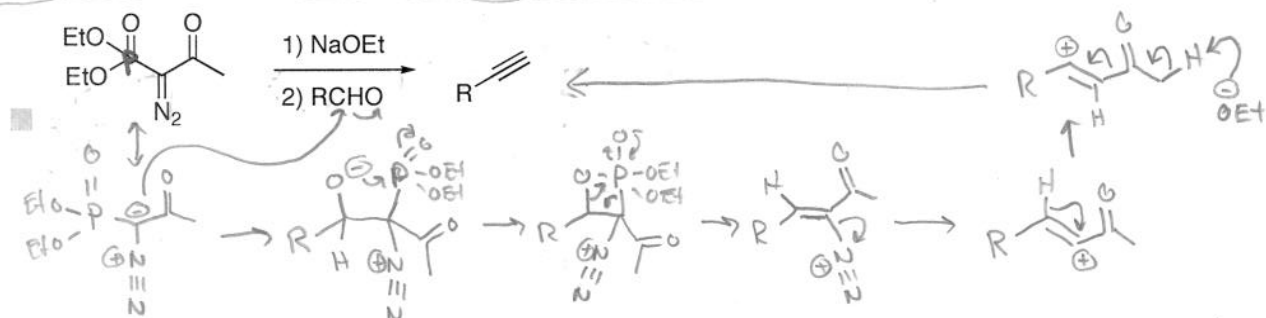
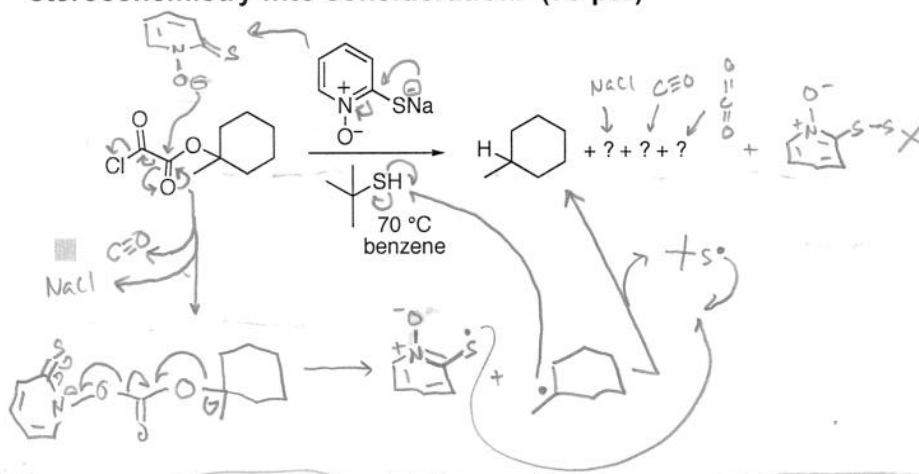
STEREOELECTRONIC EFFECTS. Given below are pairs of reactants. Carefully draw the product with the correct stereochemistry and the model that predicts the preferred diastereomer or regioisomer. The right answer only gets you 1/4 of the points. Use nice 3D pictures or Newman projections please! Some answers require more than one picture. (80 points)

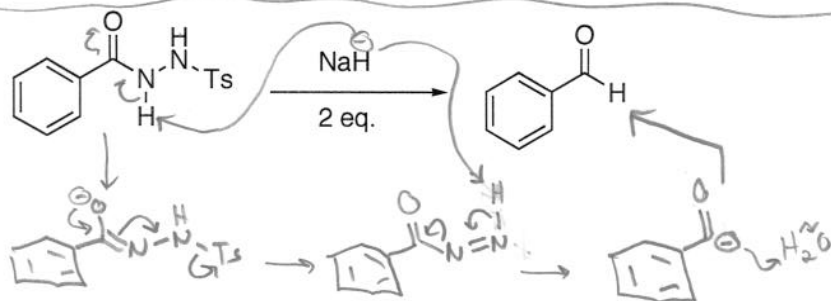
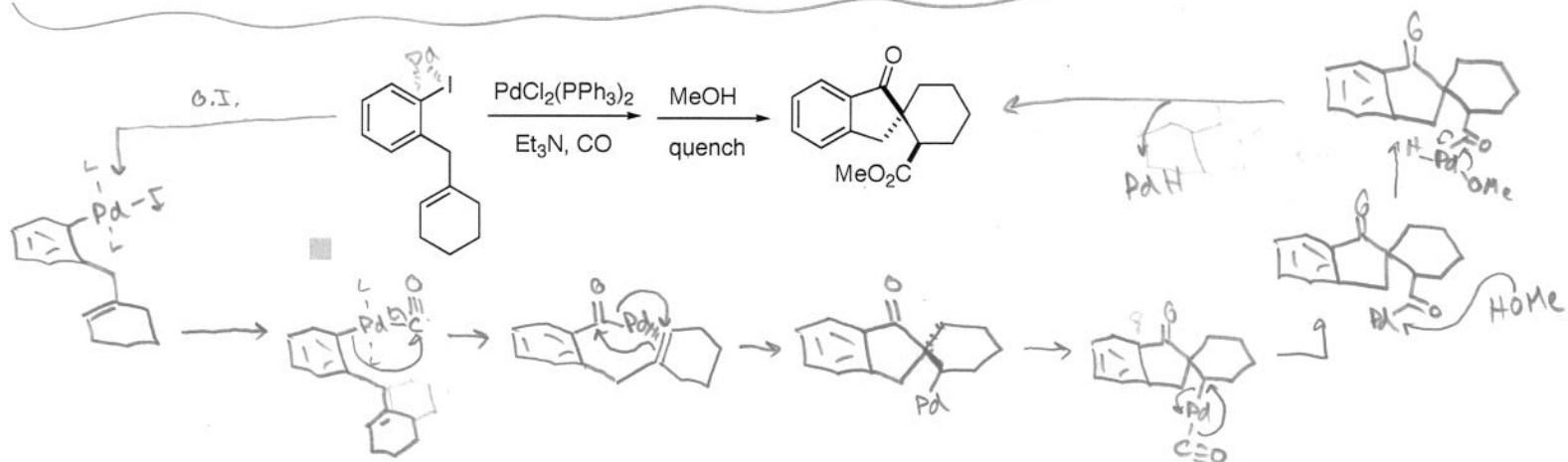
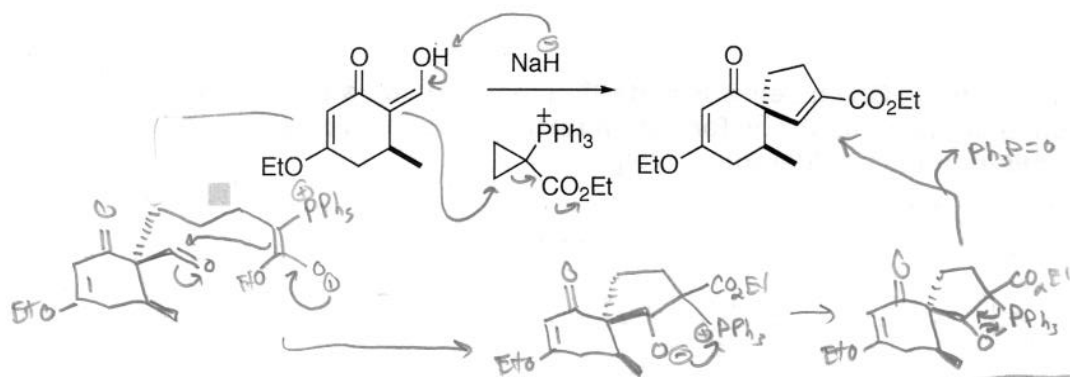






ARROW PUSHING. Given below is a starting material and a product. Provide an mechanism that accounts for its formation taking regiochemistry and stereochemistry into consideration. (70 pts)







SYNTHESIS. All compounds are racemic unless otherwise stated, and your synthesis must address relative stereochemistry. (80 pts)

