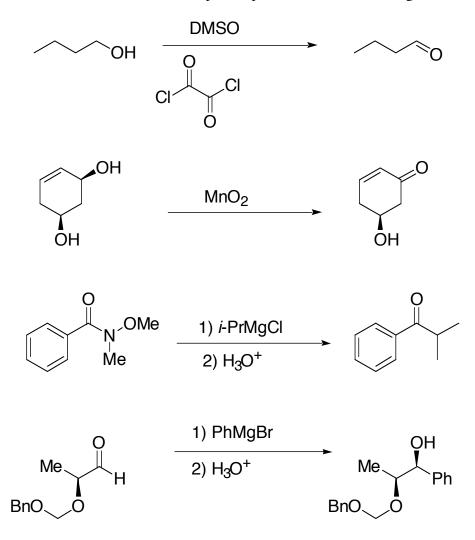
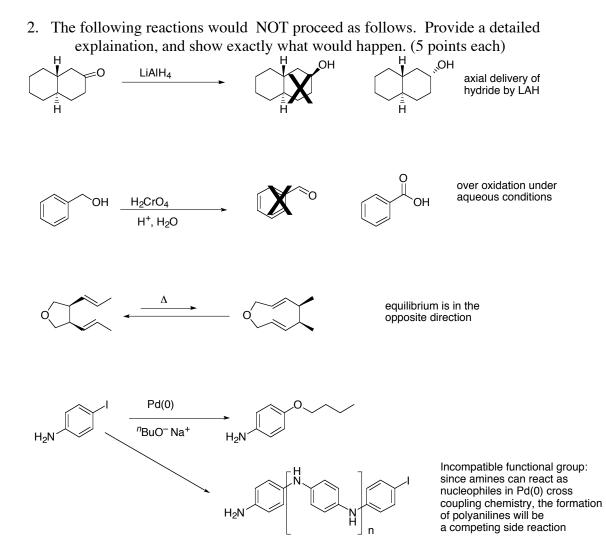
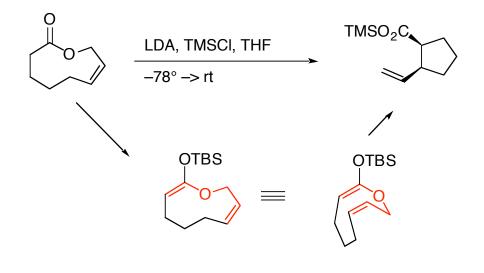
Chem 634 Exam 1 Practice Questions 1.5 hours March 4, 2004 Prof. Fox

1. Provide structures of the expected products of the following reactions. (5 points each)





3. Provide a mechanism that explains the stereochemical outcome of the following reaction. Your answer must include a detailed transition state model. (20 points)

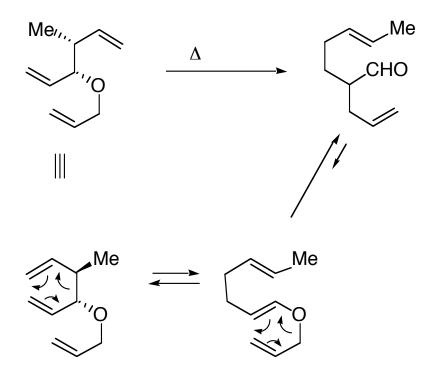




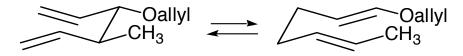
NOTE that a chair TS is impossible here



Note the need for distorted bond angles/absurd bond legnths Make a model! 4. Provide a detailed arrow pushing mechanism. Be sure that your answer includes a detailed model that explains the double bond stereochemistry. (20 points)



explanation of double bond stereochemistry



5. Outline a multistep synthesis (20 points)

