

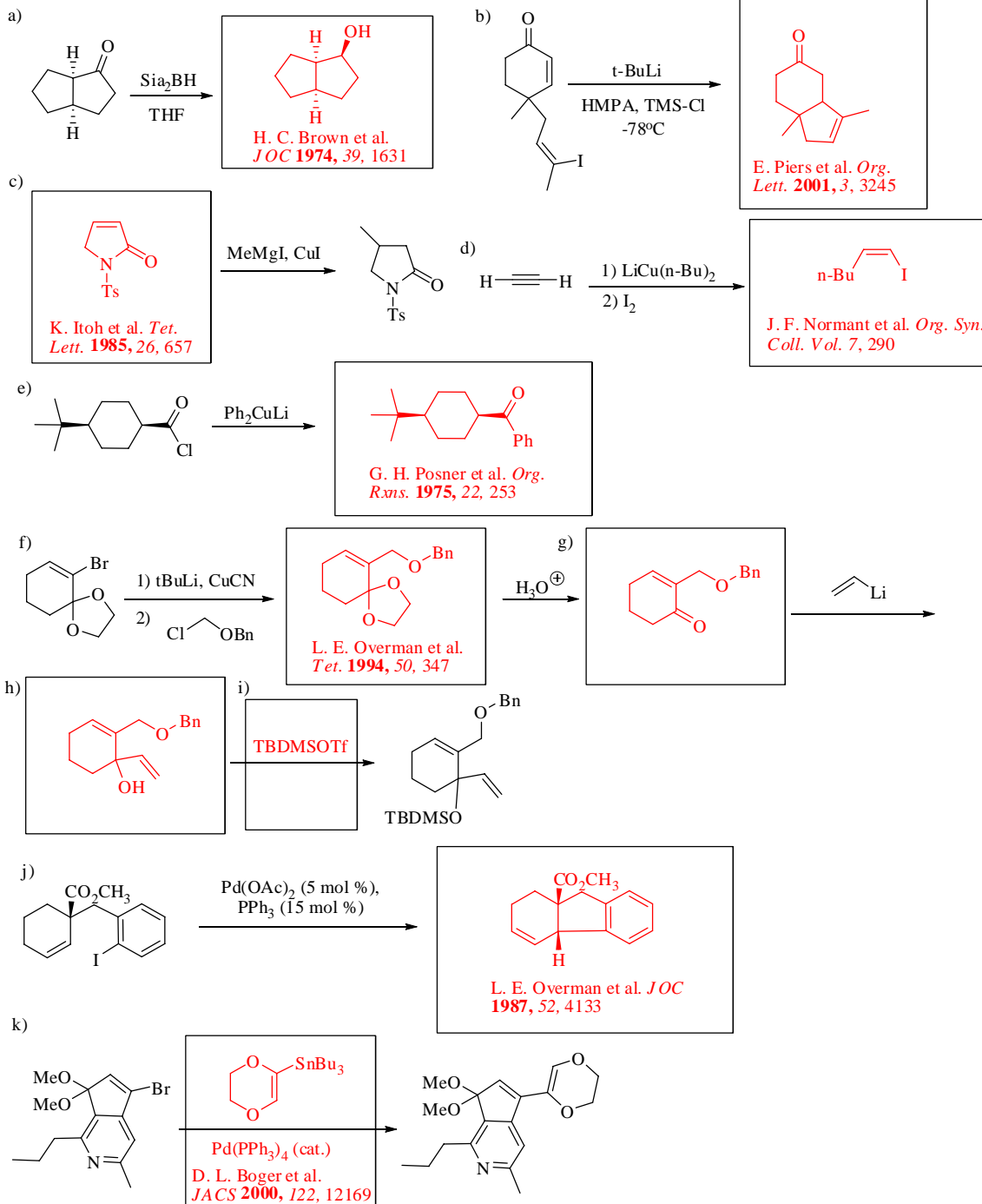
**Advanced Organic Chemistry**

**Problem Set #6**

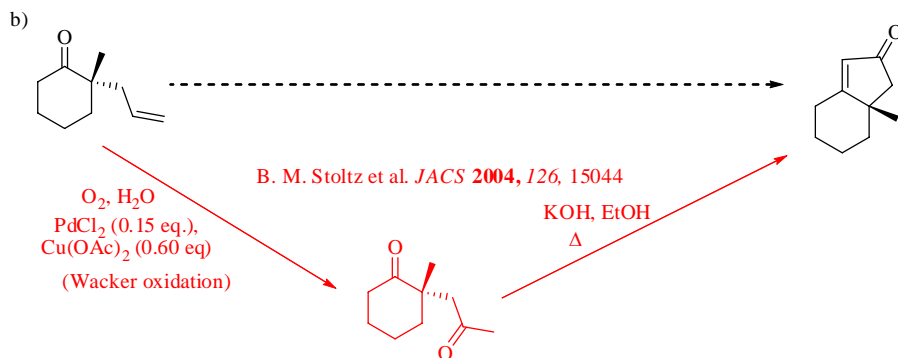
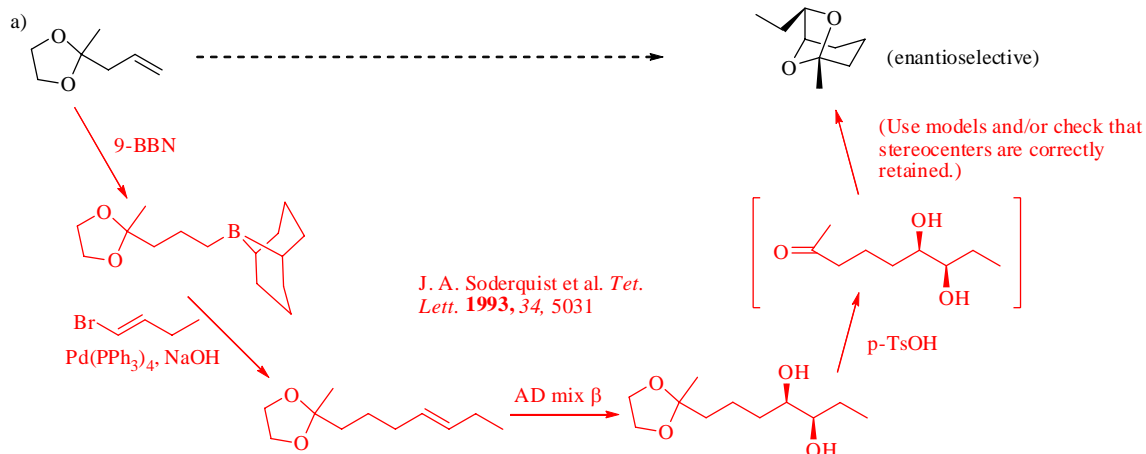
Due: Nov. 15, 2007

Name: Benazir Bhutto

1. Complete the following reactions by providing reagents or products in the box. Include stereochemistry where appropriate. (2 pts. each) *Undergraduates complete 10 of 11. Graduate students must do all 11.*



2. Suggest a series of reactions to transform the starting material on the left to the product on the right. (6 pts. each)



3. Suggest a mechanism for the following reaction and label all steps based on the type of reaction occurring. (6 pts.)

