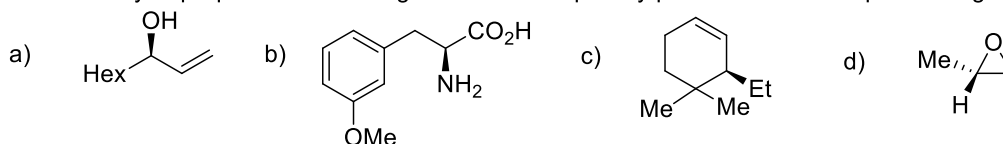
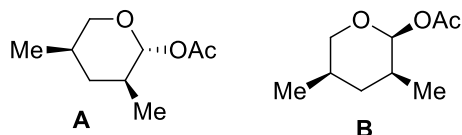


## Second Problem Set for OC I Part II ( 15.12.2015) Prof. Paul Knochel

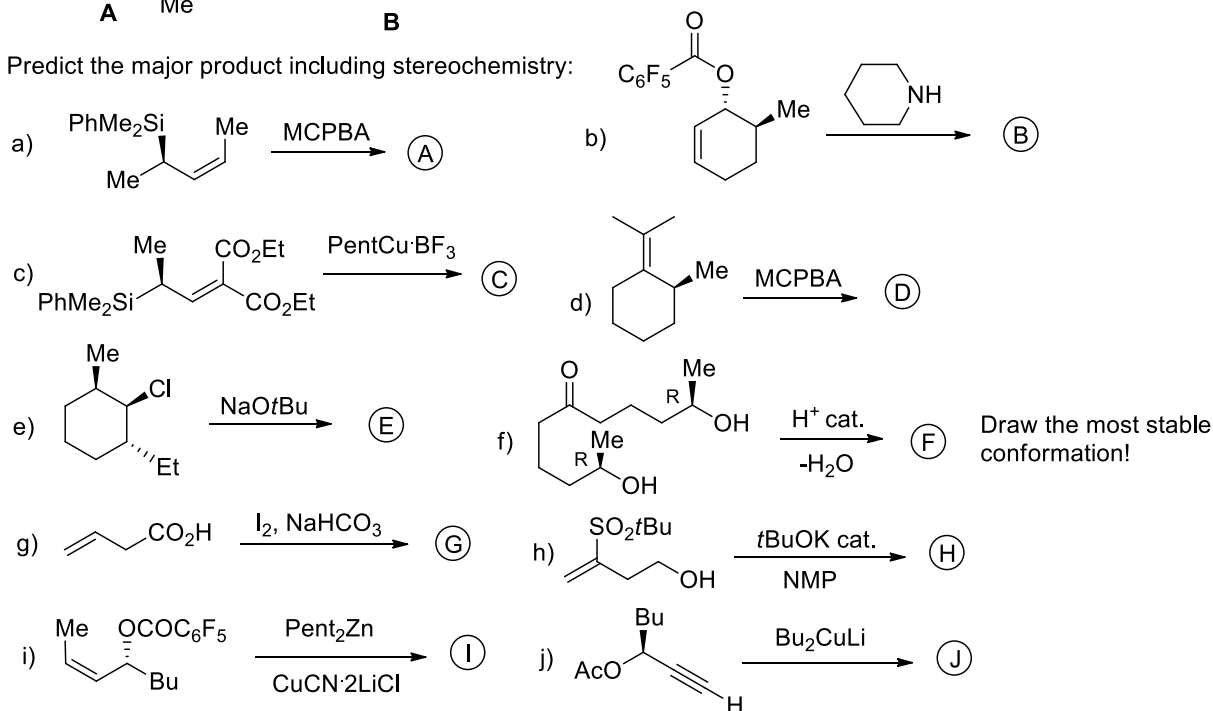
1) How would you prepare the following molecules in optically pure form from simple starting materials?



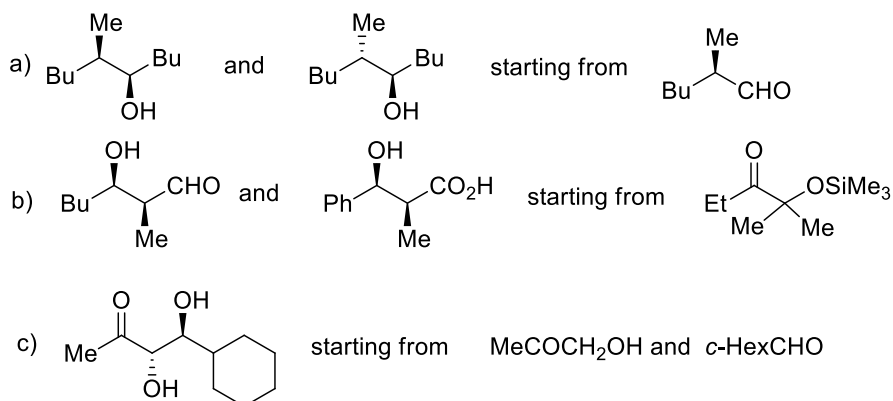
2) How would you differentiate the two diastereoisomers **A** and **B**?



3) Predict the major product including stereochemistry:



4) How would you prepare the following molecules?



5) Give a mechanism for the following reaction:

