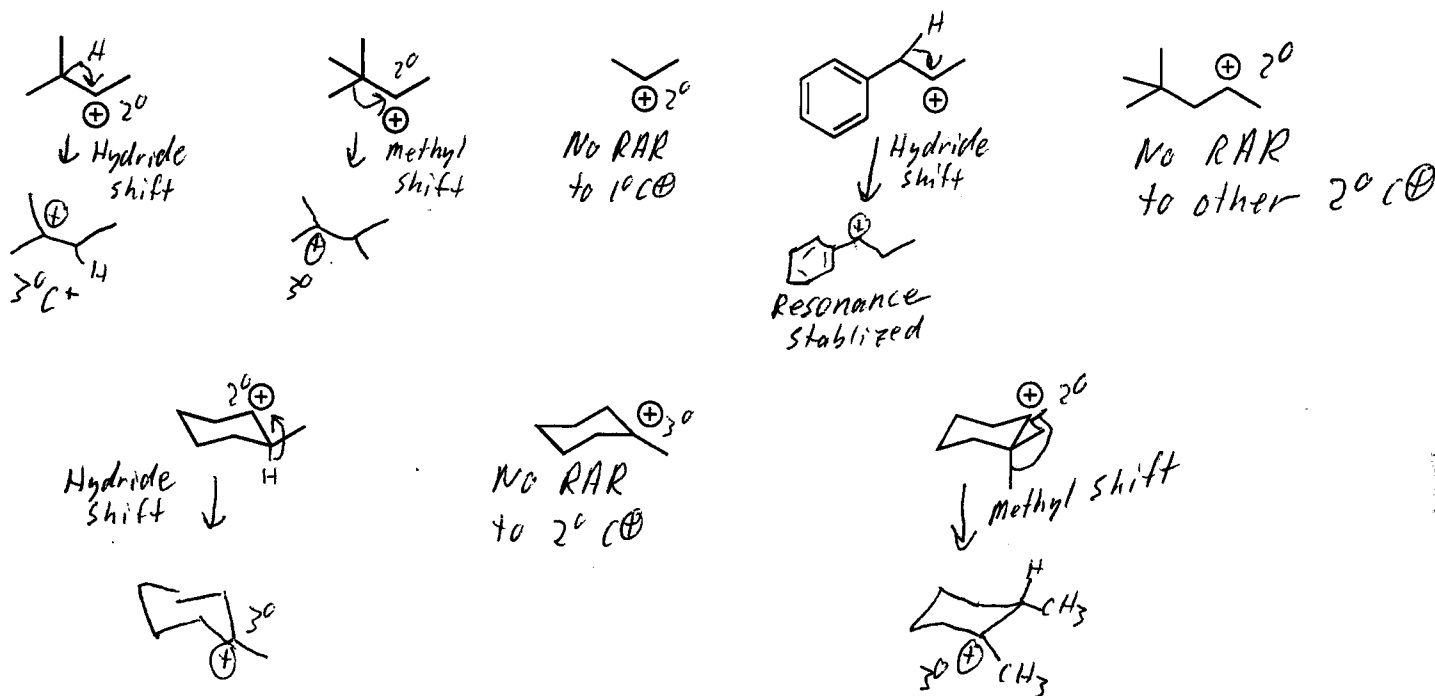
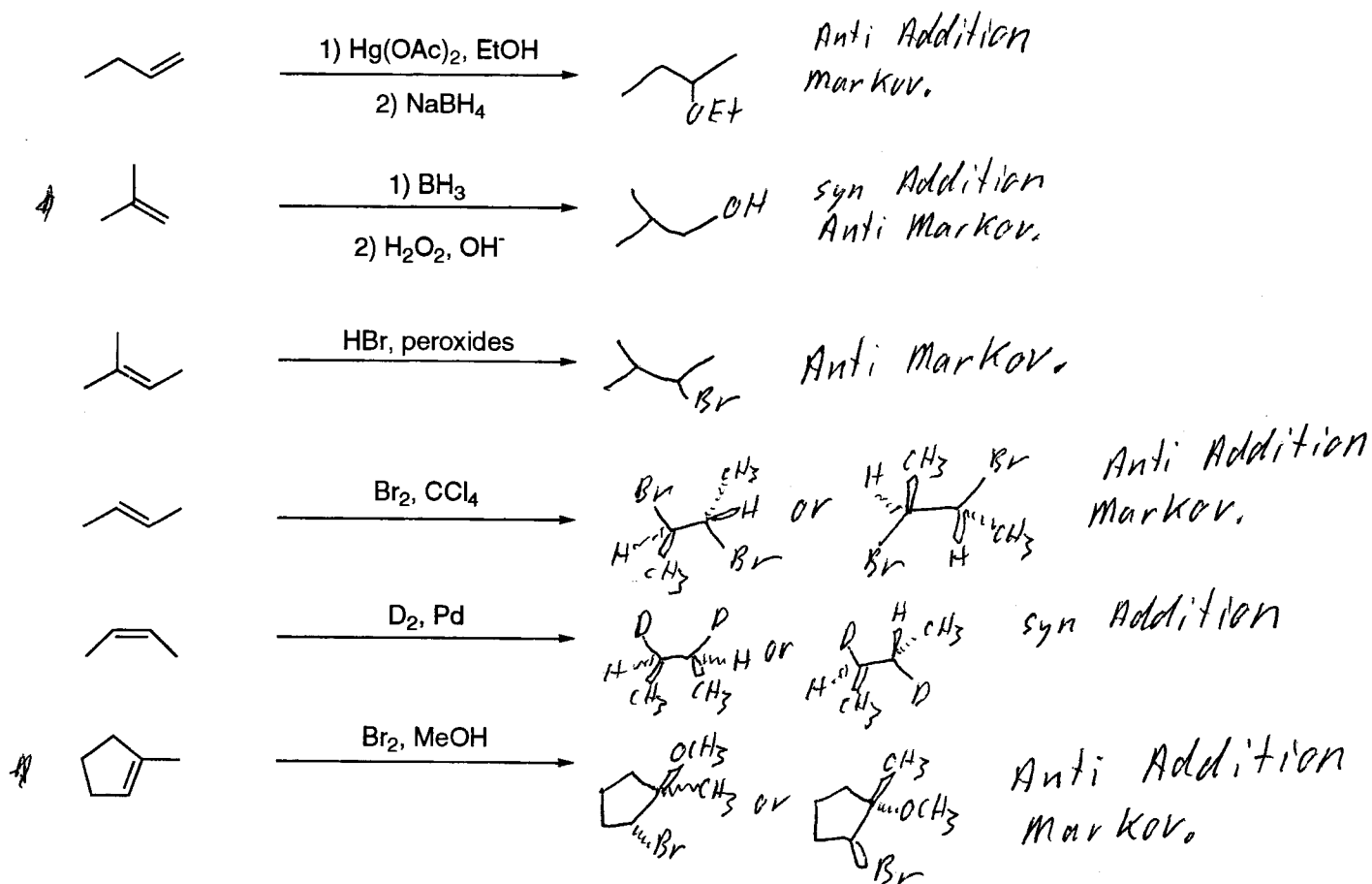


1. If the following carbocations are subject to rearrangement, name the shift (hydride/methyl) and show the product.

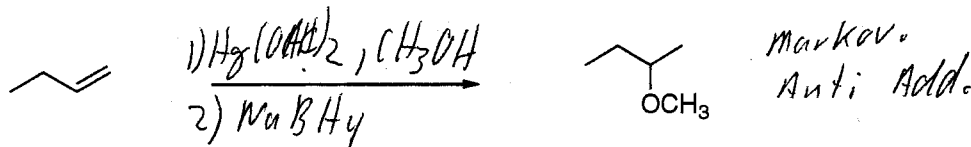
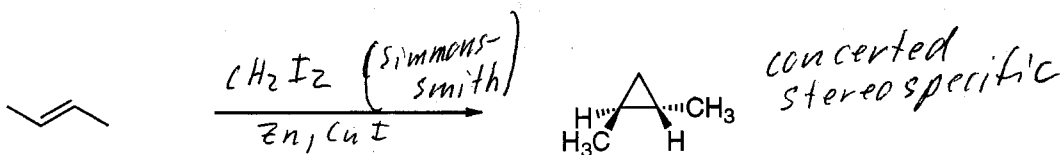
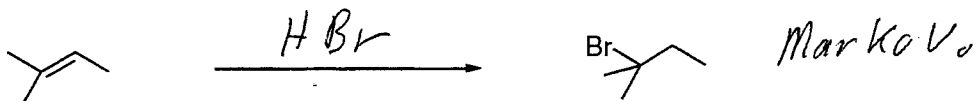
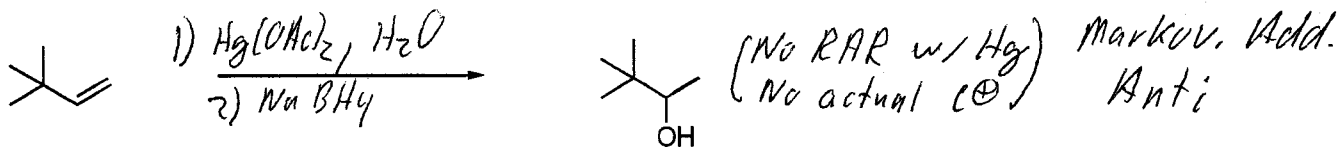


2. Give the products of the following reactions. Also indicate stereochemistry, whether the reaction proceeds with anti or syn addition and Markovnikov or Anti-Markovnikov addition where applicable. (Know these reactions forwards...)

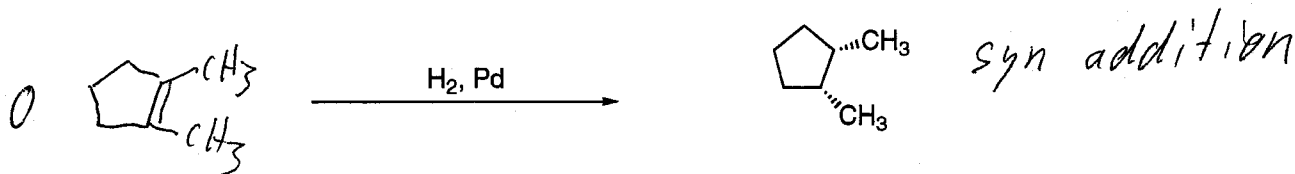
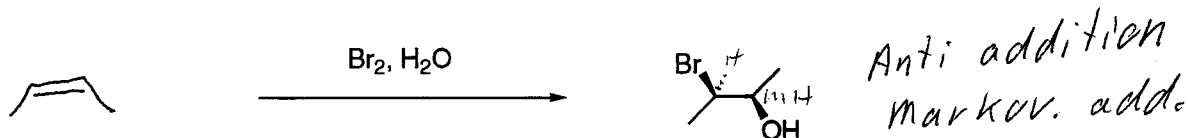
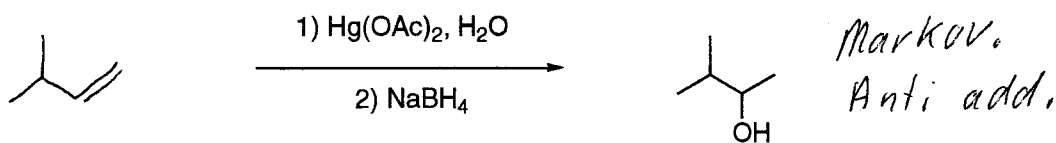
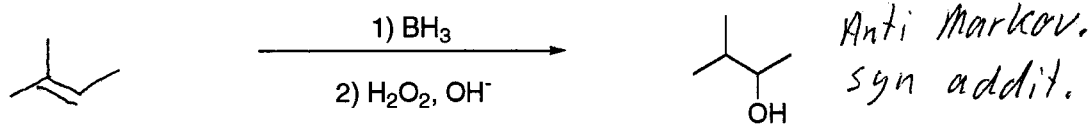
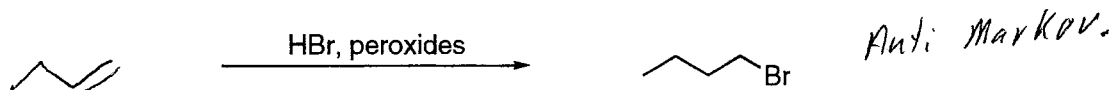


Organic I Chemistry
Practice Problems
Dr. Davies

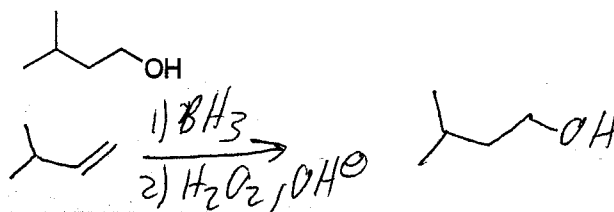
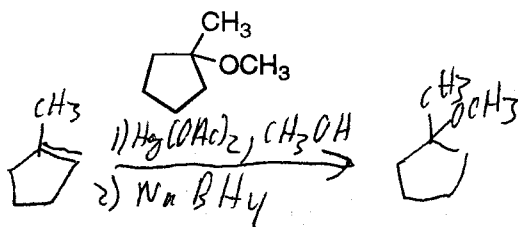
3. Give the best reagents for the following reactions. (Know these reactions forwards, in between...)



4. Give the starting alkene. (Know these reactions forwards, in between, and backwards).

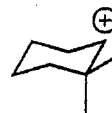
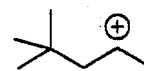
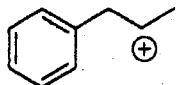
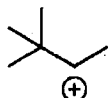
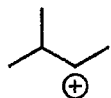


5. What is the best way to make the following compounds?

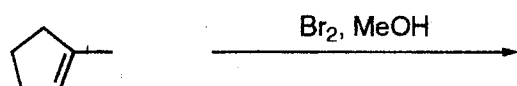
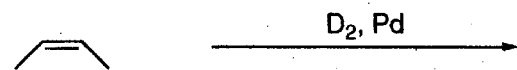
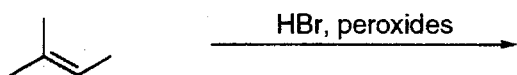
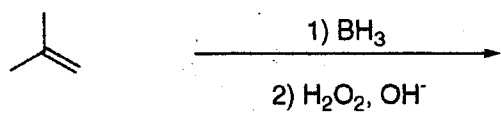
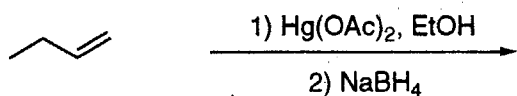


Organic I Chemistry
Practice Problems
Dr. Davies

1. If the following carbocations are subject to rearrangement, name the shift (hydride/methyl) and show the product.

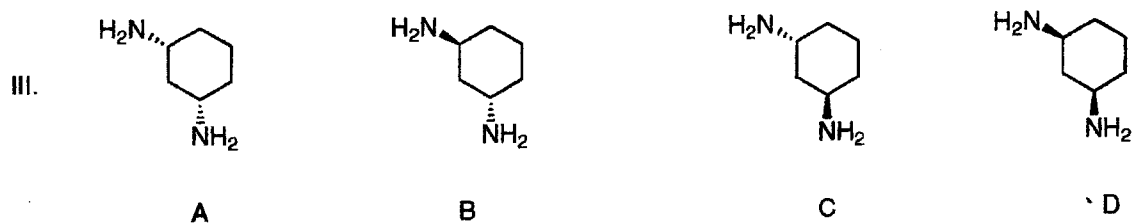
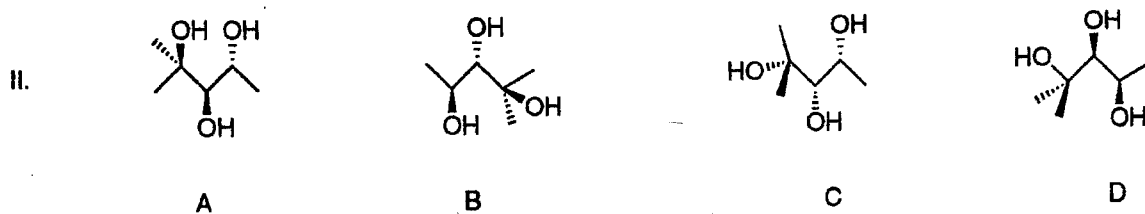
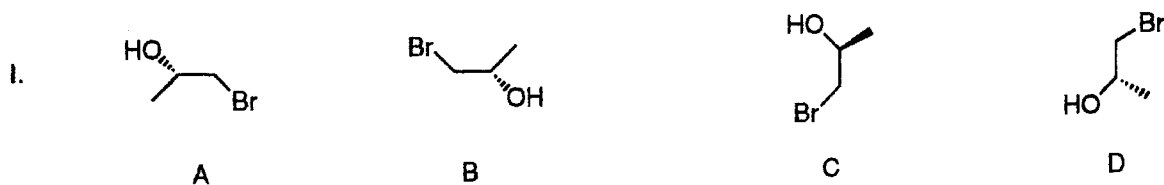


2. Give the products of the following reactions. Also indicate stereochemistry, whether the reaction proceeds with anti or syn addition and Markovnikov or Anti-Markovnikov addition where applicable. (Know these reactions forwards...)

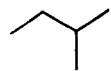


Organic Chemistry
Stereochem. exercise
 Dr. Davies

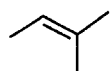
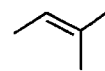
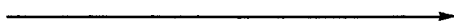
Practice problems - 1) Indicate all chiral centers, 2) Label chiral centers as R or S 3) State chemical relationship between each structure (Same compound, enantiomer, diastereomers). Also indicate meso structures.



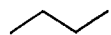
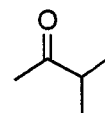
Each of the following transformations will require more than 1 step. How would you perform the following?



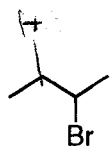
(2 steps)



(2 steps)



(3 steps)



(2 steps)

