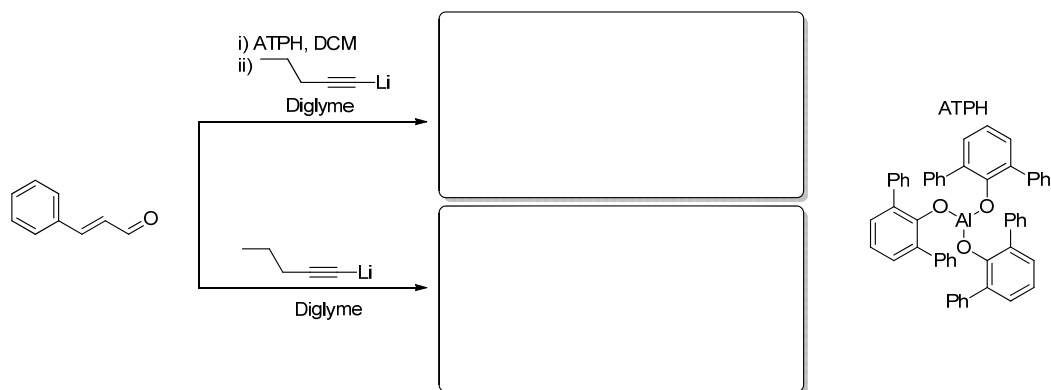


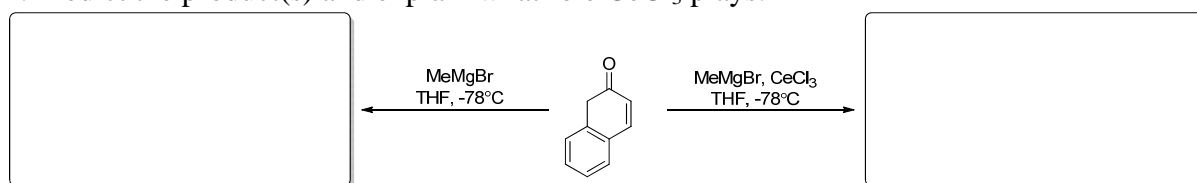


Problem Set No. 5

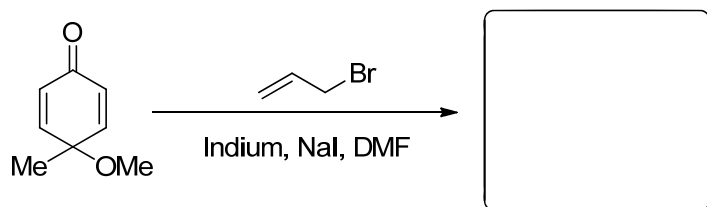
1. Provide the following products and explain the outcome in a single sentence.



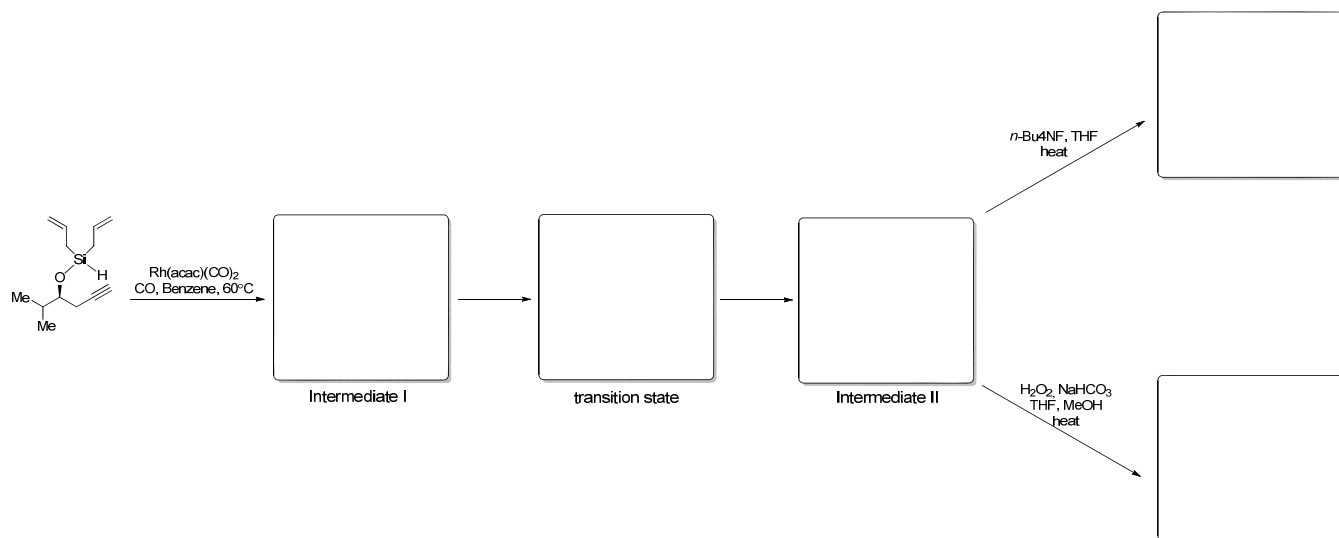
2. Predict the product(s) and explain what role CeCl_3 plays.



3. Draw the product of the reaction and provide an arrow pushing mechanism. What role does NaI play?



4. Provide the intermediates and transition state that justifies depicted stereochemistry.



5. Fill in the blanks:

