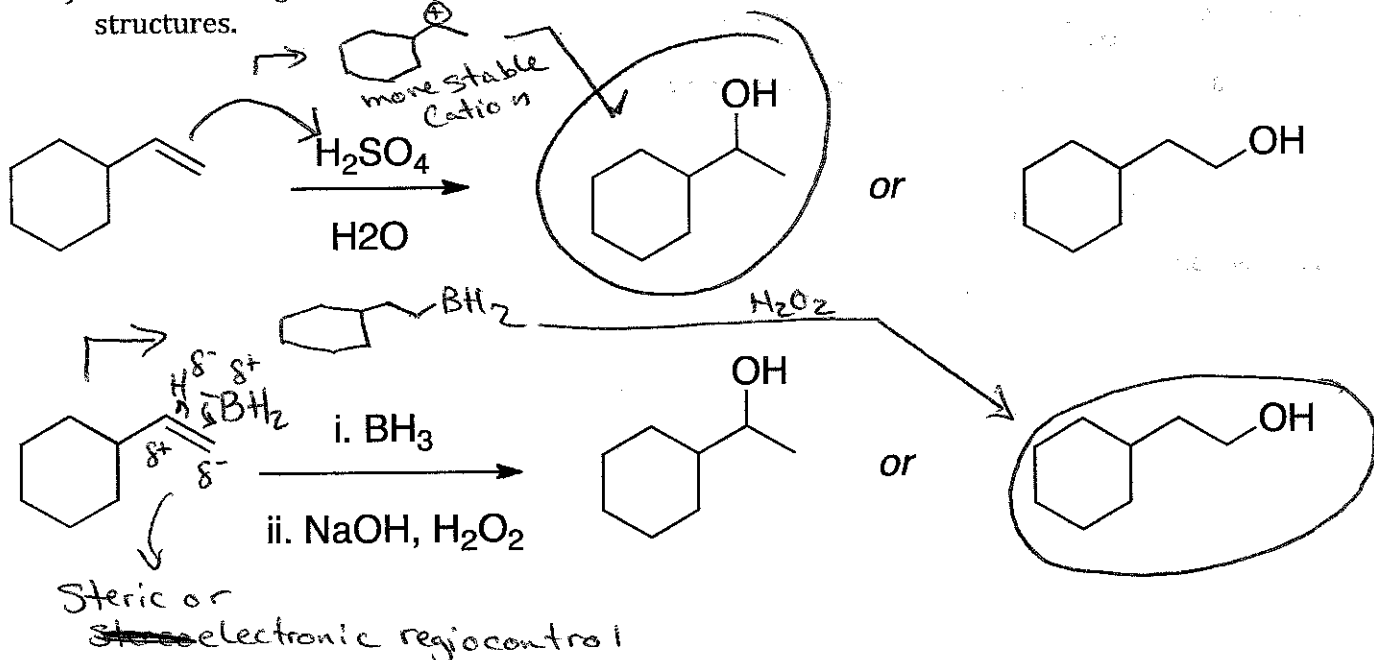


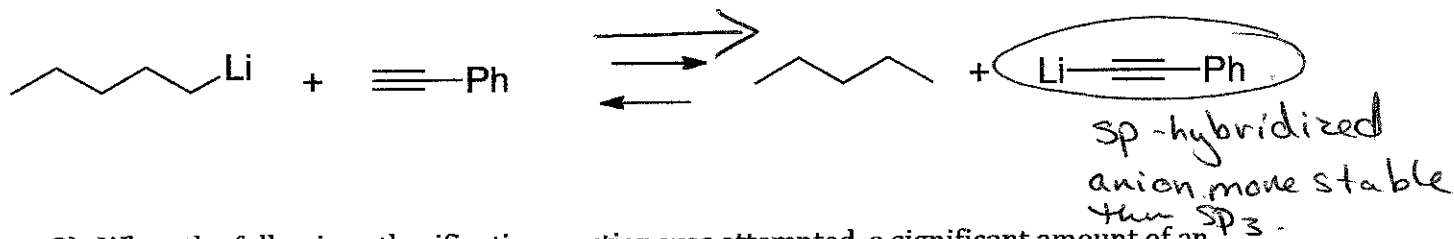
Answer Key

Practice Problems for Exam 2

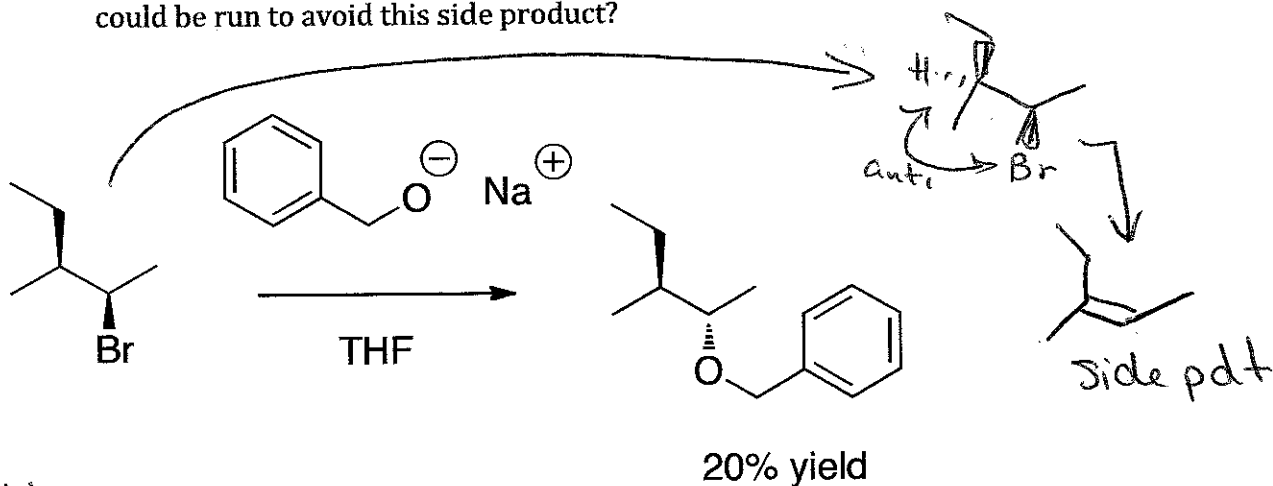
1) Predict the regioselectivity of the following 2 reactions and explain your answer using structures.



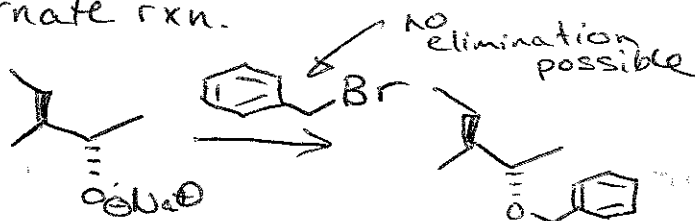
2) Which way would the following reaction favor, and explain your answer.



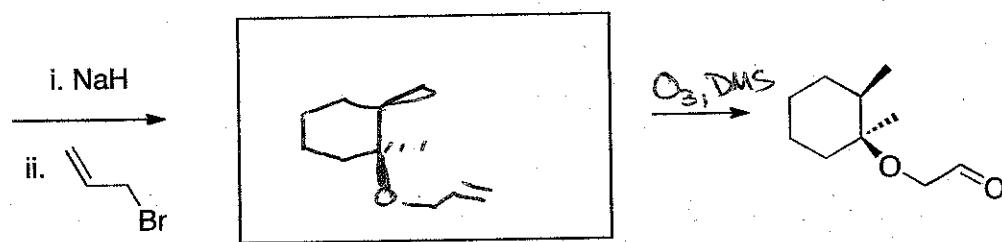
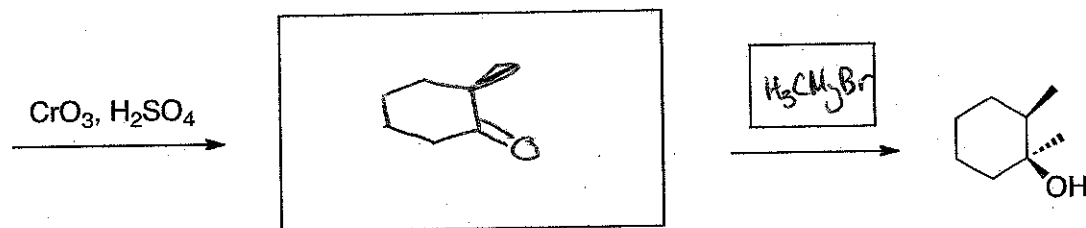
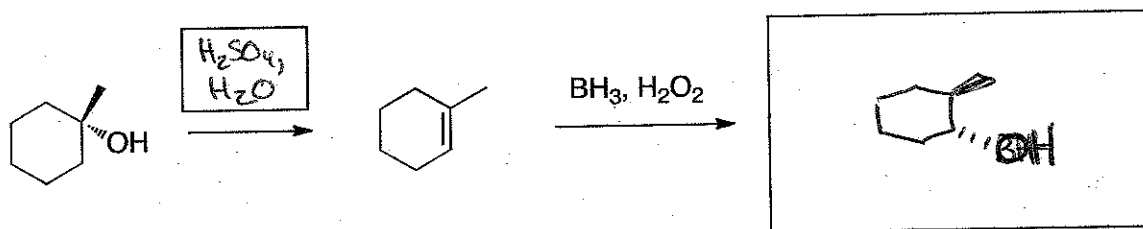
3) When the following etherification reaction was attempted, a significant amount of an impurity arises with the molecular formula C_6H_{12} . What is this structure? What reaction could be run to avoid this side product?



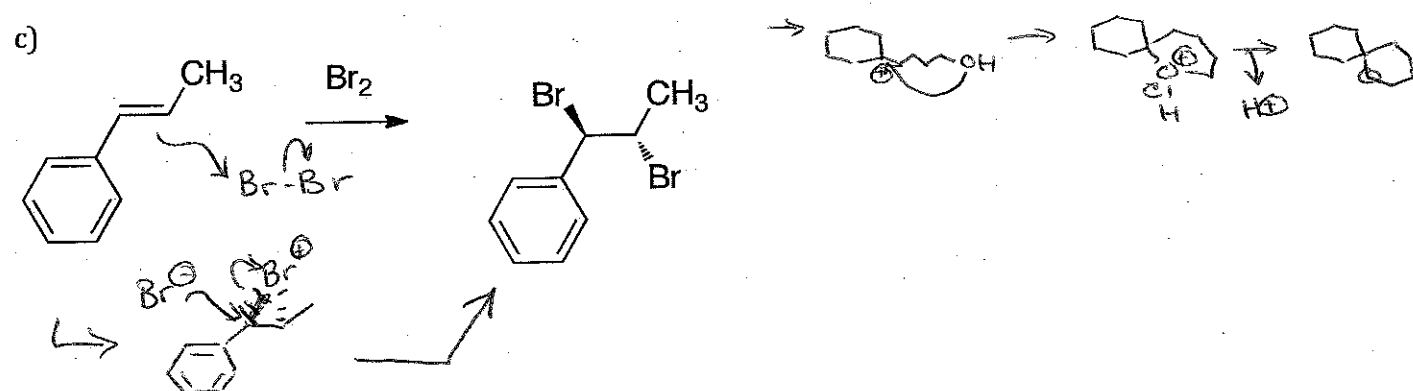
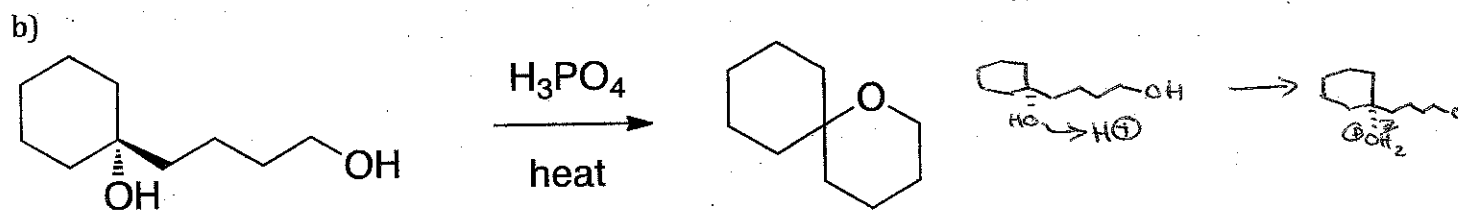
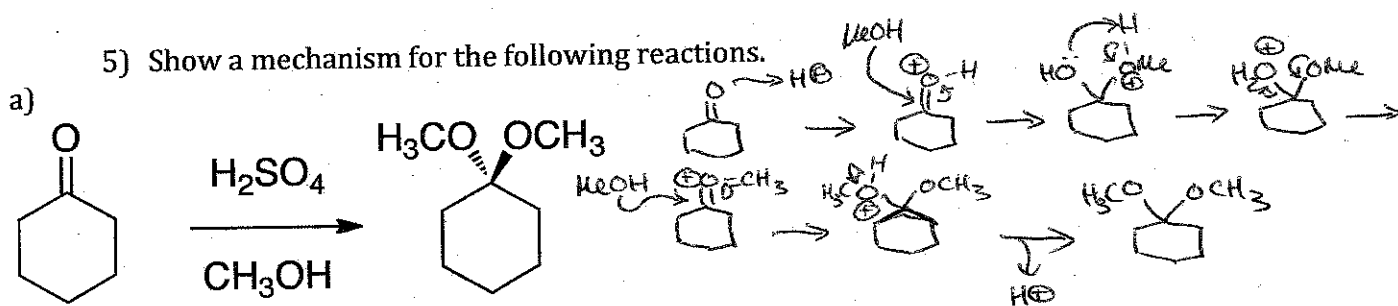
alternate rxn.



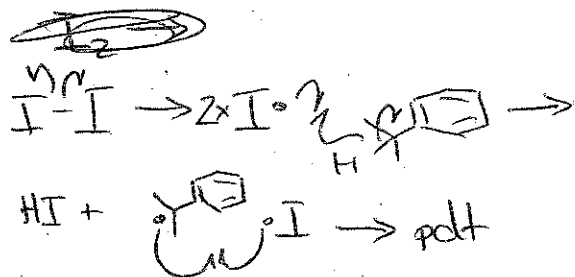
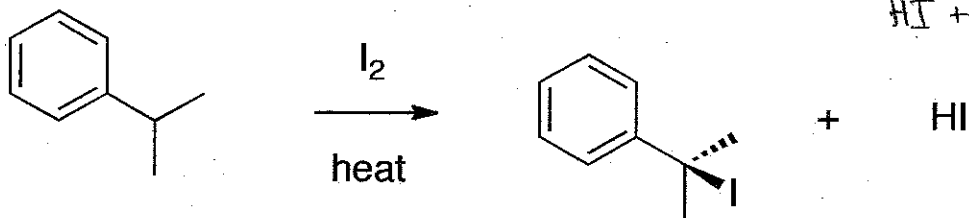
4) Fill in the blanks for the following reaction sequence.



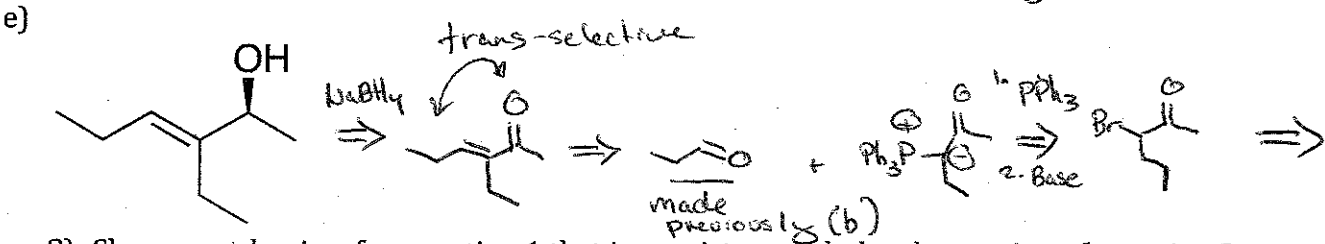
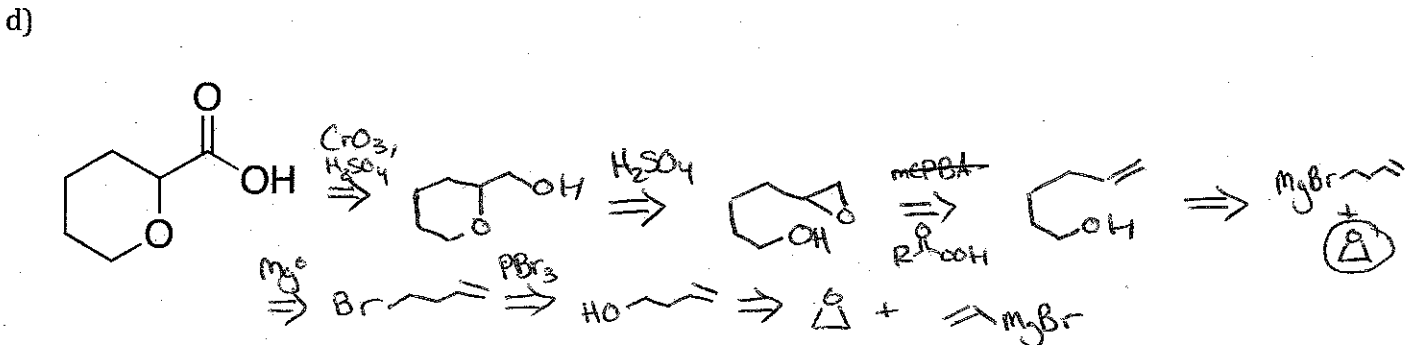
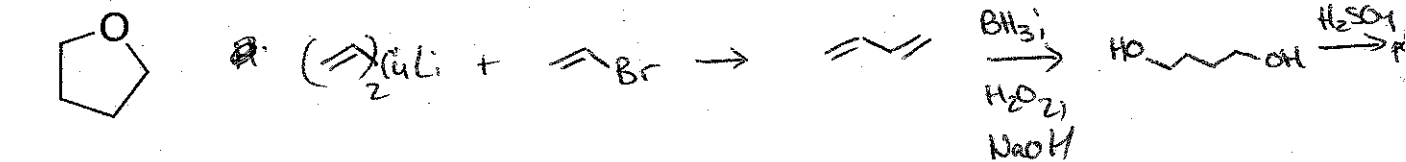
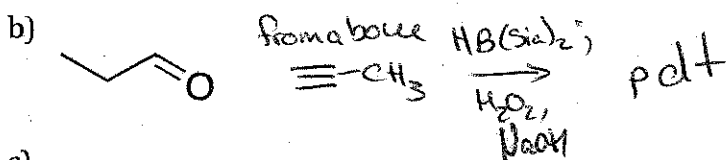
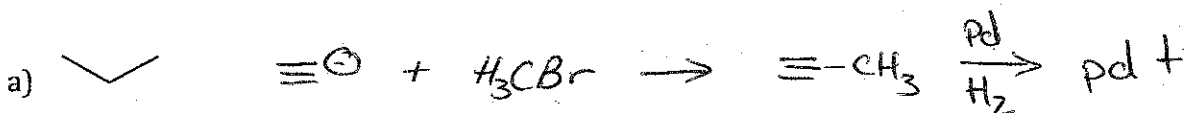
5) Show a mechanism for the following reactions.



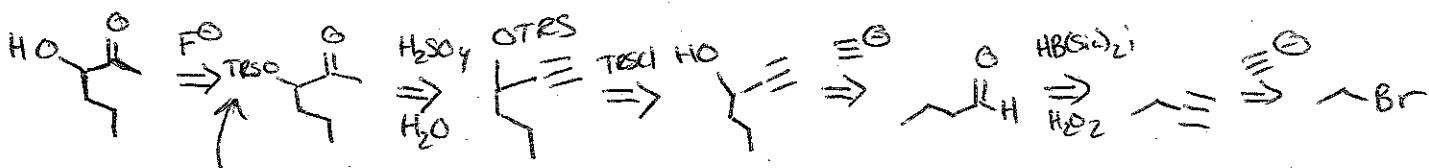
6) Show a mechanism for the following radical reaction.



7) Propose syntheses of the following molecules using starting materials of no more than 2 carbons.

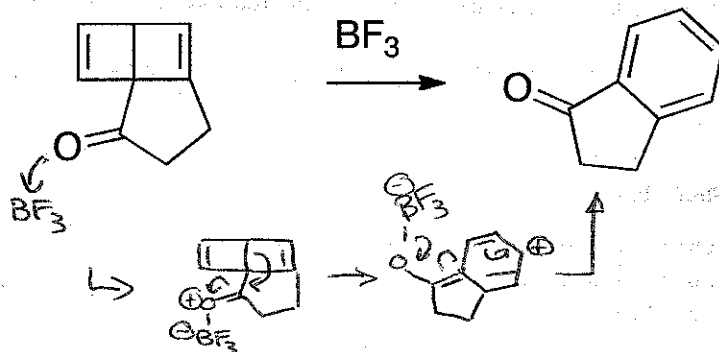


8) Show a mechanism for equation 1 that is consistent with the observation of equation 2.



OR might not be necessary

eq. 1



eq. 2

