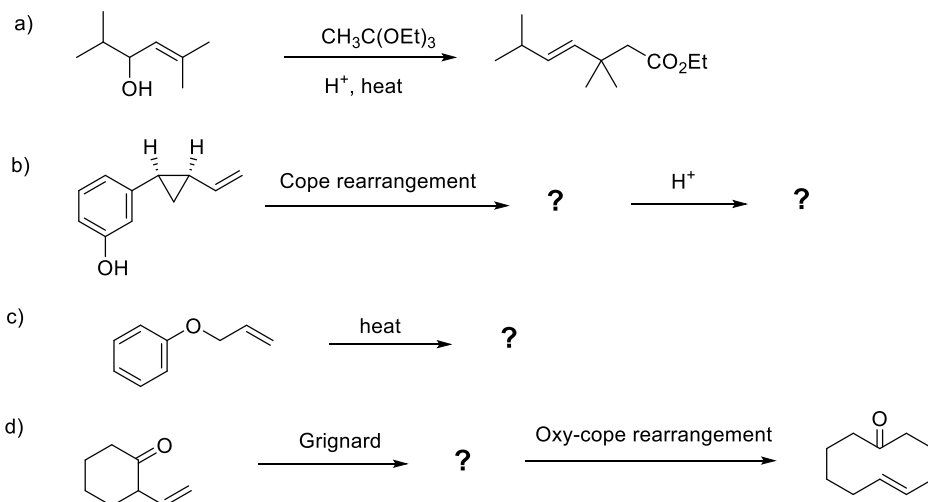


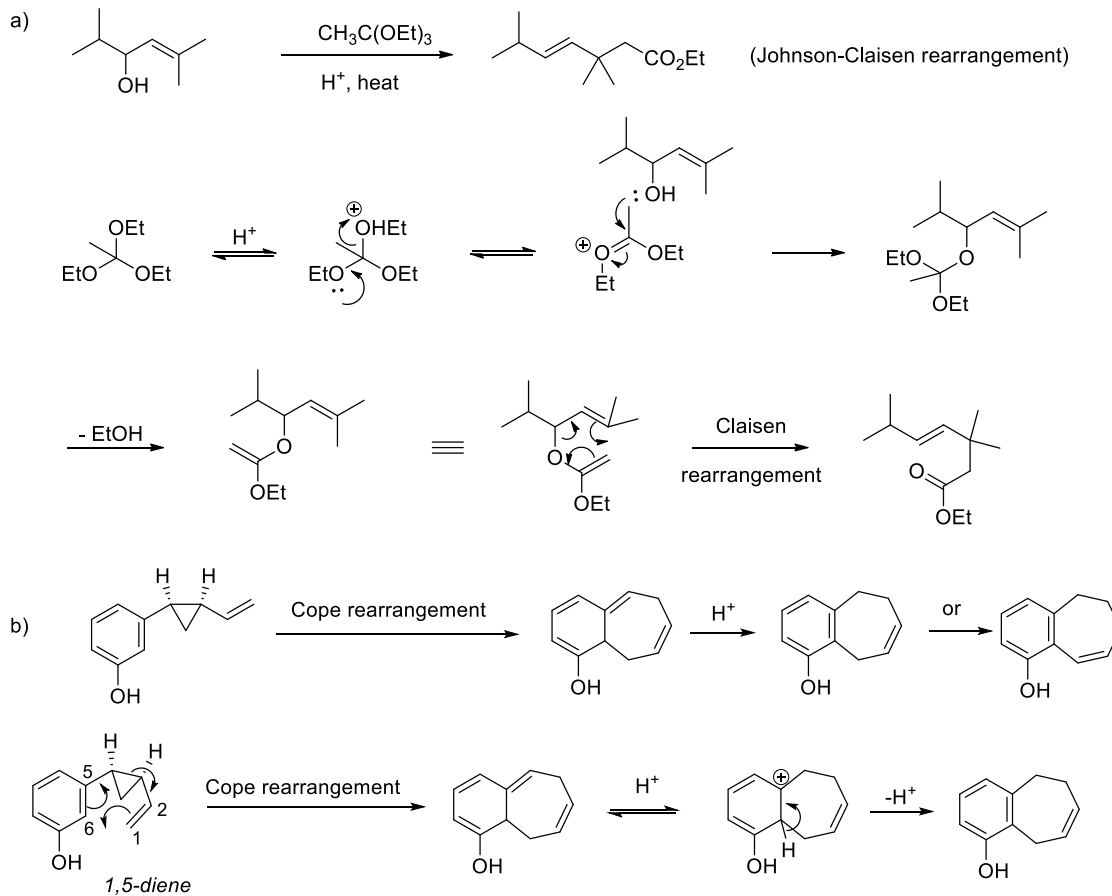
Solutions to problems - Set 11: Rearrangements

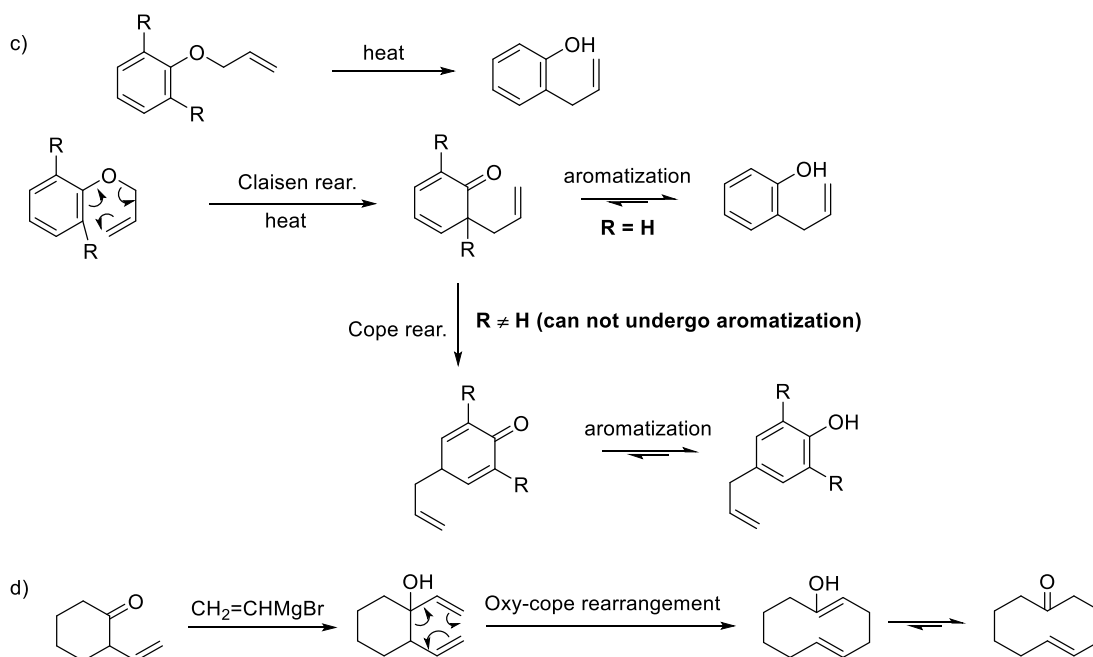
Problem 1

Complete the following transformations and explain by giving detailed mechanisms.



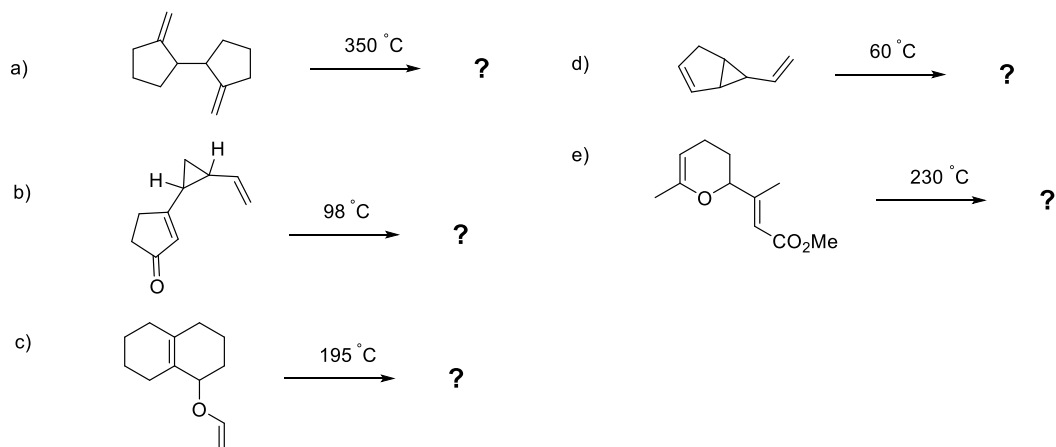
Solution



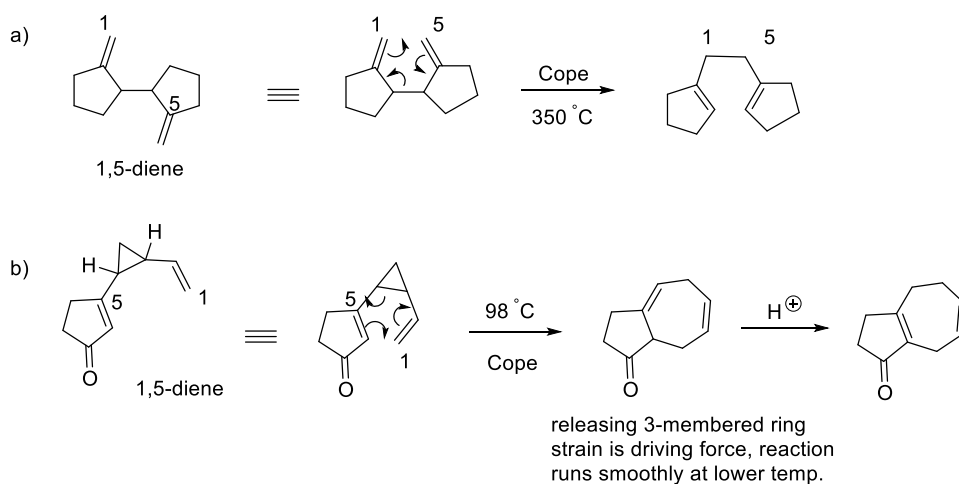


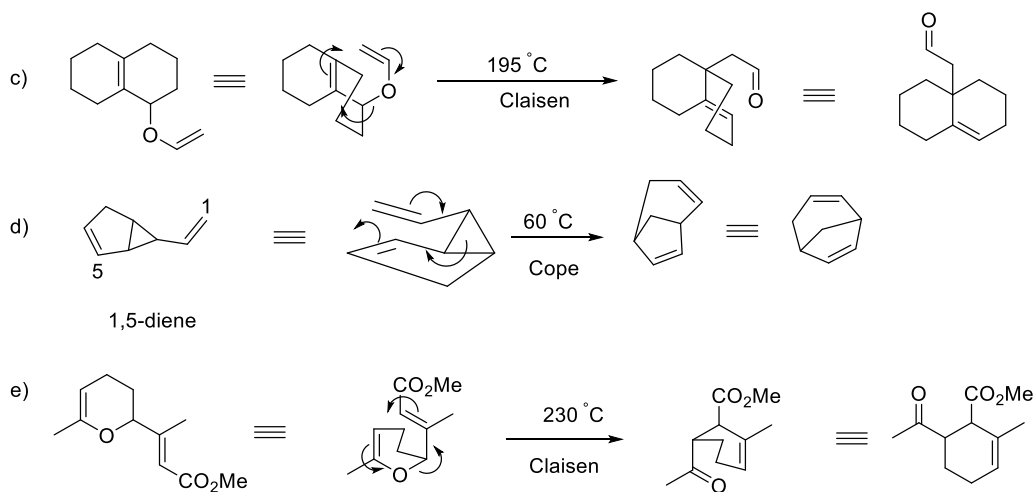
Problem 2

Find the structure of products after treating the following compounds at high temperature.



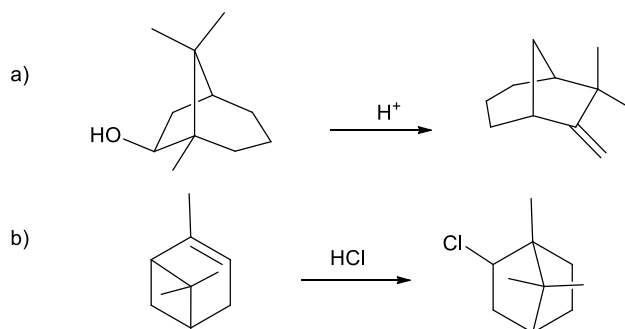
Solution



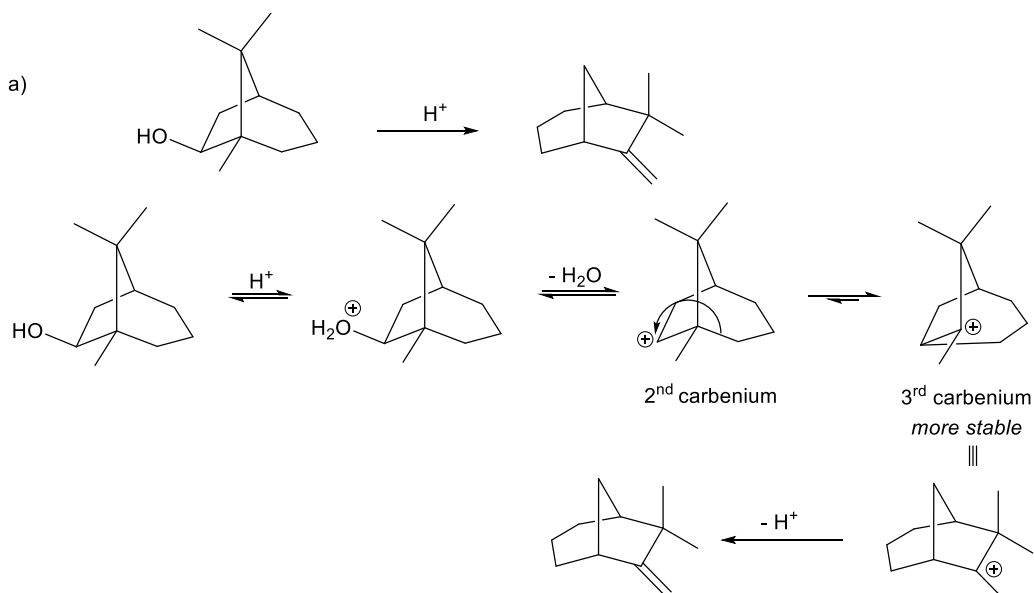


Problem 3

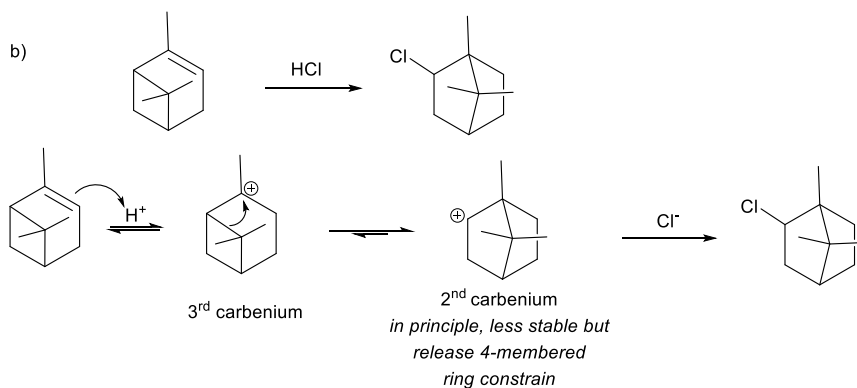
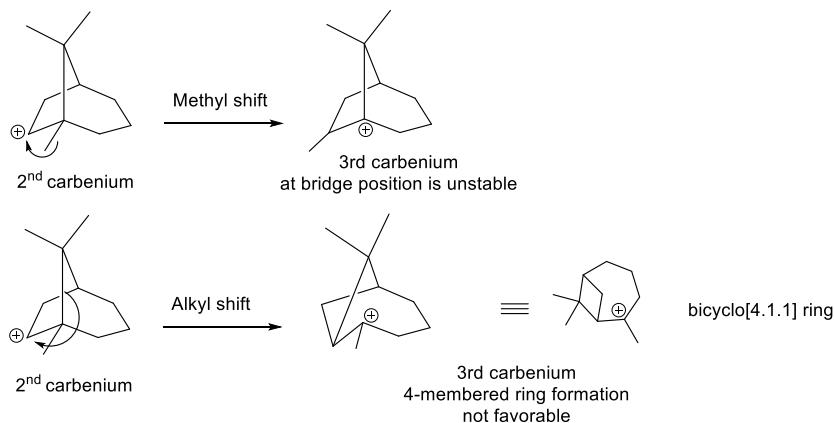
Propose mechanisms for the following transformations.



Solution

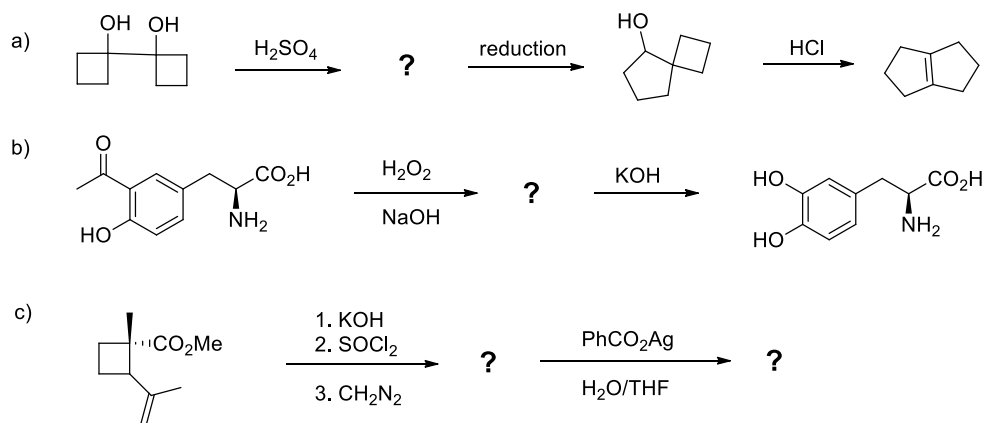


Other possibilities

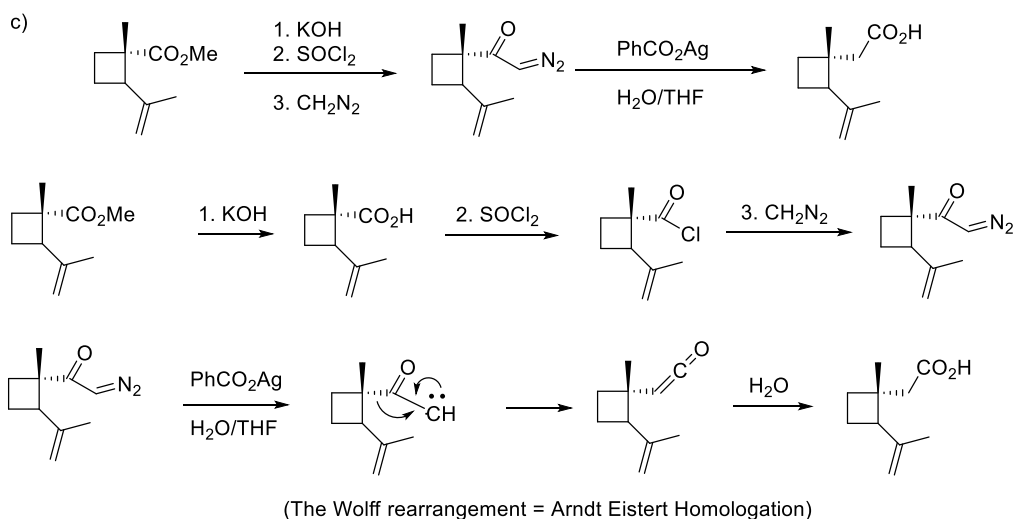


Problem 4

Complete the following transformations and explain by giving detailed mechanisms.

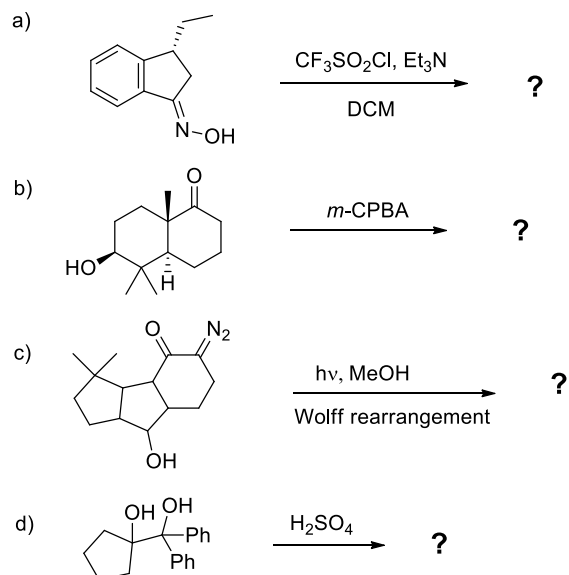


Solution

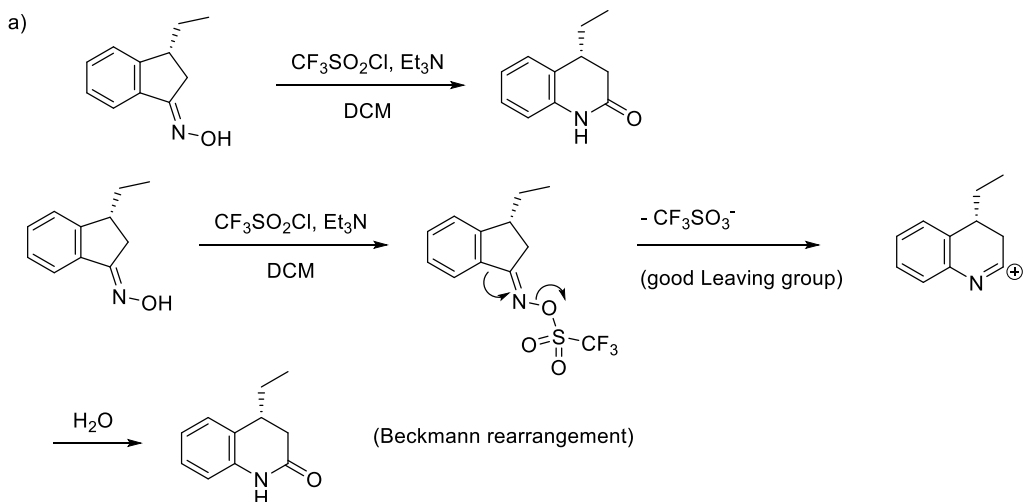


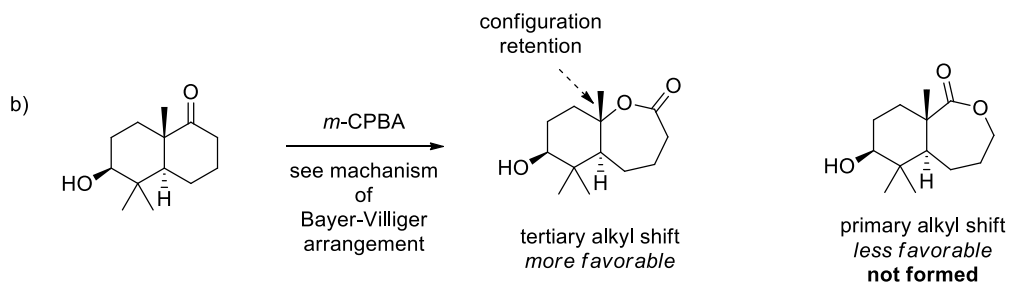
Problem 5

Find the structure of products for each of the following reactions.



Solution





Notes: There is retention of configuration of alkyl group which is shifted

