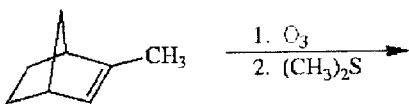
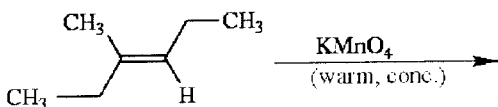


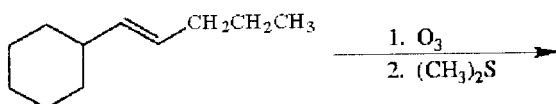
- 21) Draw the major organic product generated in the reaction below. Pay particular attention to regio- and stereochemical detail.



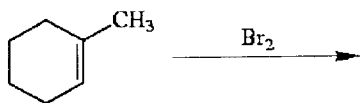
- 22) Draw the major organic product generated in the reaction below. Pay particular attention to regio- and stereochemical detail.



- 23) Draw the major organic product generated in the reaction below. Pay particular attention to regio- and stereochemical detail.



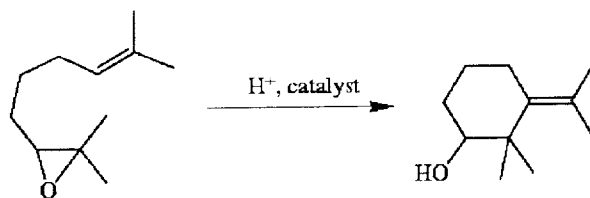
- 24) Complete the following reaction and provide a detailed, step-by-step mechanism for the process.



- 25) Complete the following reaction and provide a detailed, step-by-step mechanism for the process.



- 26) Provide a detailed, step-by-step mechanism for the reaction shown below.



- 27) Provide the reagents necessary to complete the following transformation.

