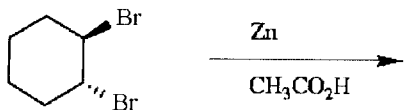
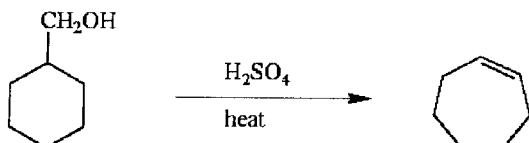


17) Draw all likely alkene products in the following reaction and circle the product you expect to predominate.

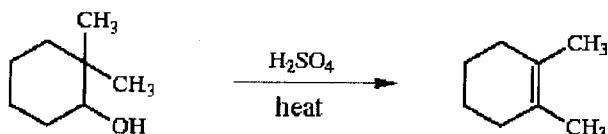


18) Draw the alkene product which results when 1-bromopentane is heated in acetone containing NaOH. Give a detailed, step-by-step mechanism for the production of this compound.

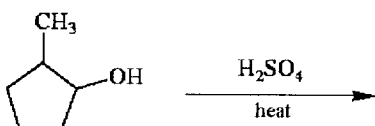
19) Propose a detailed, step-by-step mechanism for the reaction pathway shown below.



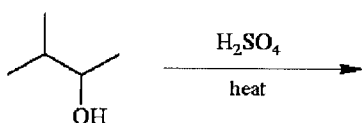
20) Propose a detailed, step-by-step mechanism for the reaction pathway shown below.



21) Draw all likely products of the following reaction and circle the product you expect to predominate.



22) Draw all likely products of the following reaction and circle the product you expect to predominate.



23) Provide the reagents necessary for carrying out the transformation of cyclopentane to cyclopentene

24) What reagent could be used to prepare cyclopentene from *trans*-1,2-dibromocyclopentane?