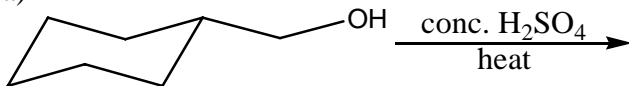


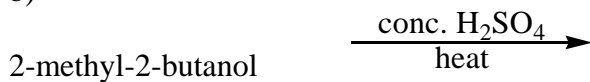
Chem 141
Problem-Set
Wednesday 8th November 2006.

1. Show the mechanism and the major product of the following reactions.
Rearrangements may be required!! Watch out!

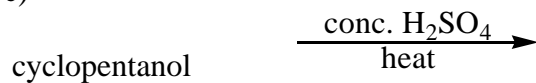
a)



b)

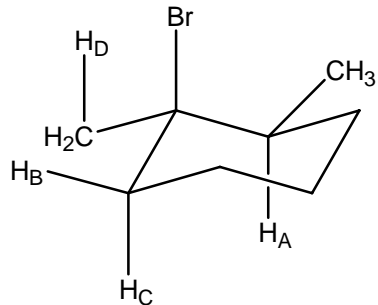


c)



2) List the order of stability for carbocations?

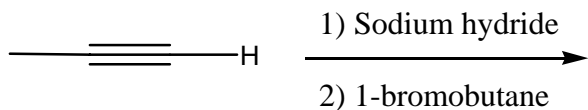
3) Which β -hydrogen is most likely to be attacked in the following structure when using sodium methoxide.



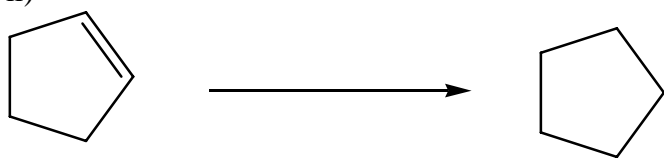
Which β -hydrogen is most likely to be attacked when using sodium t-butoxide.

4) Fill in the following reactions.

i)



ii)



5) For the following reaction provide a primary, a secondary and a tertiary alcohol that could have been used as the starting material.

