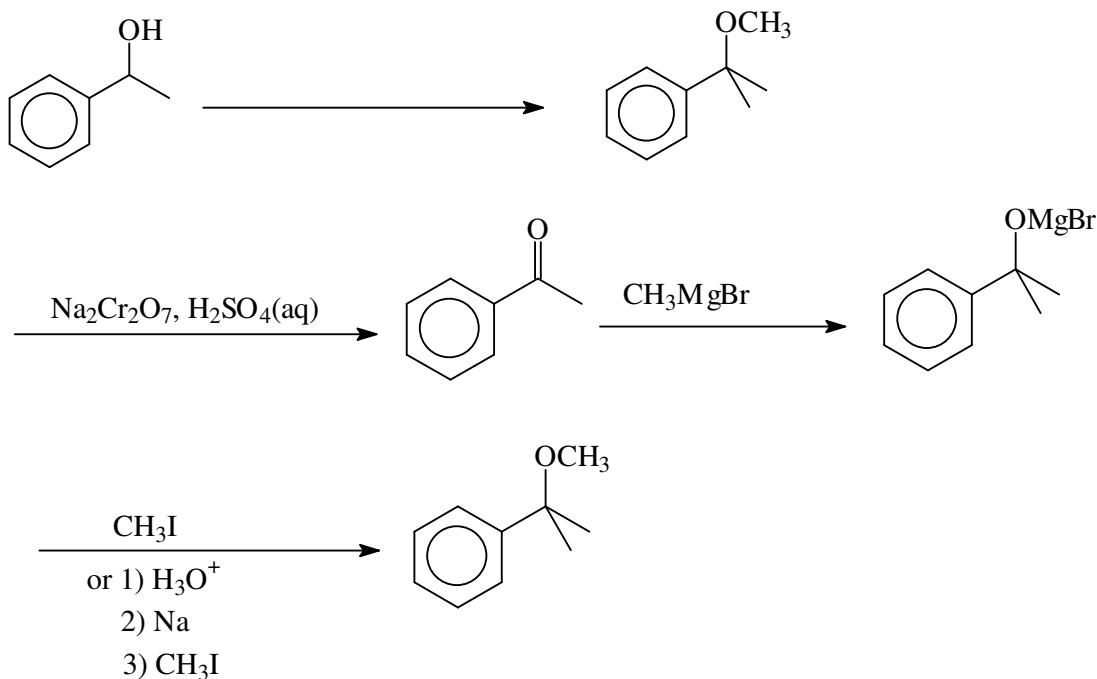
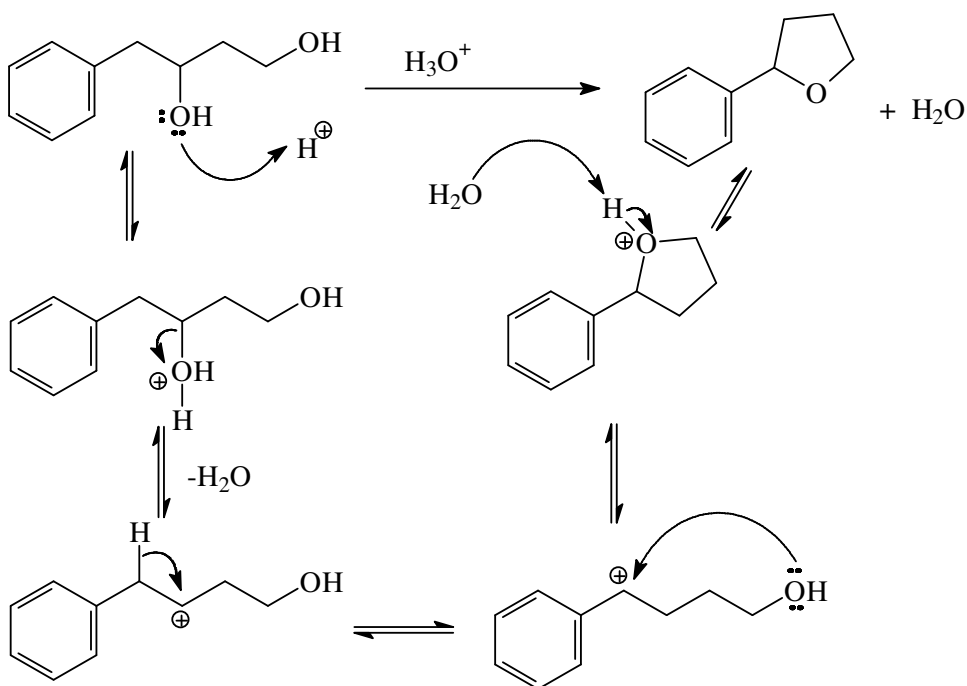


Chapter 17 Problems

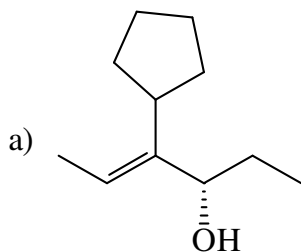
1.(10) Using any reagents that are appropriate (organometallic, organic, inorganic) propose a sequence of chemical steps that accomplishes the following transformation. List the reagents in order. Also, After each chemical step, draw the intermediate compound.



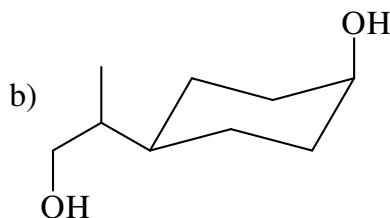
2.(10) Provide a clear mechanism for the following transformation. Use arrows to indicate electron flow and show all intermediates.



3.(10) Name the following compounds:



4-cyclopentyl-4(E)-hexen-3(S)-ol



cis 4-(1-methyl-2-hydroxyethyl)cyclohexanol

4.(25) Give the final product of the following short syntheses.

