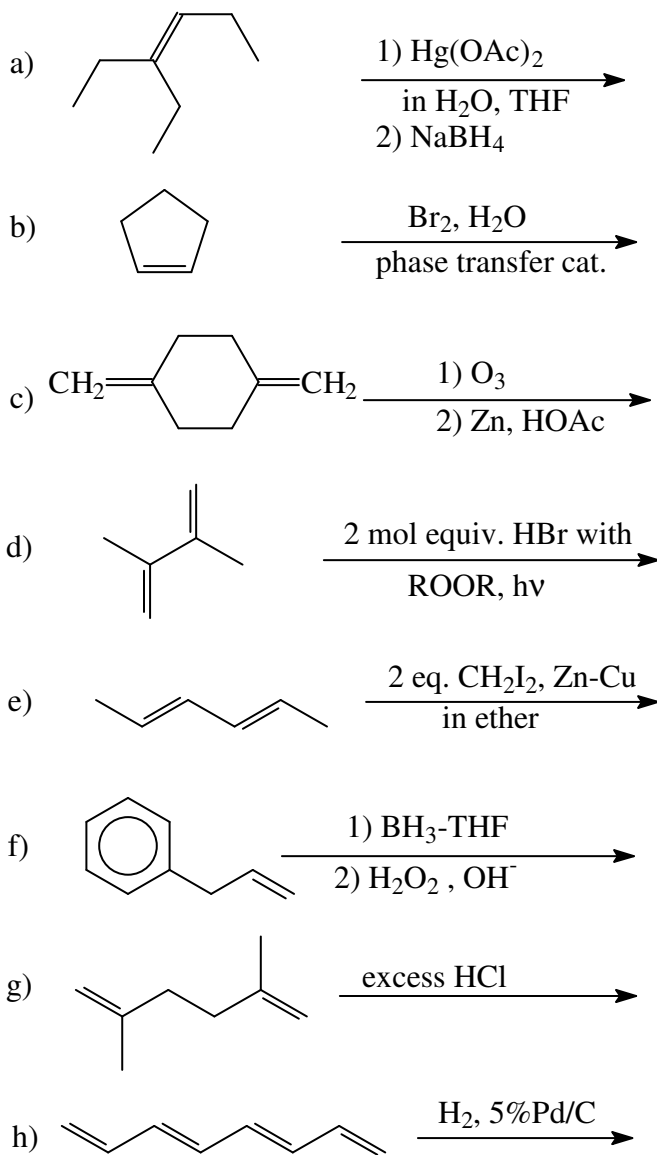
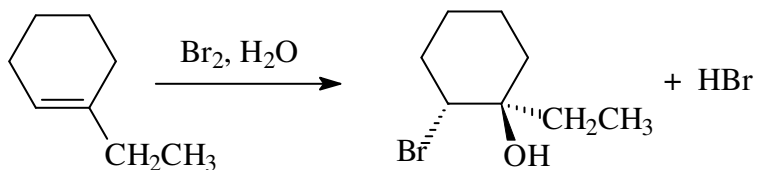


Wade, Chapter 7,8 Problems

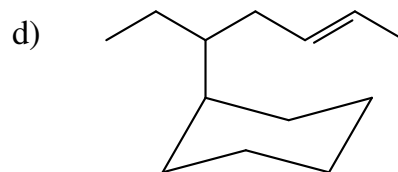
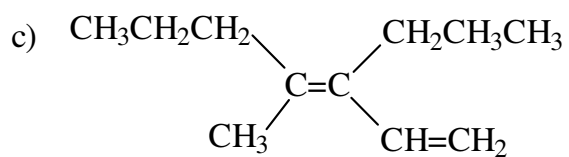
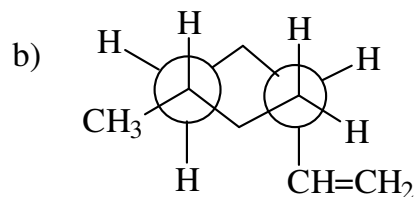
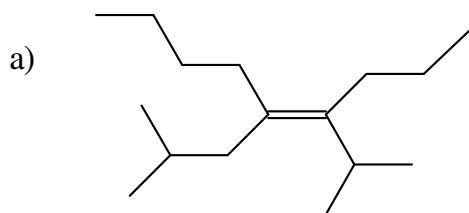
1.(32) Give the major products of the following reactions:



2.(10) Propose a **polar mechanism** that justifies the formation of the product(s) shown in the reaction below. Show all intermediates and use arrows to indicate electron flow. Your mechanism should clearly explain the stereochemistry shown.



1.(16) Give the name of the following compounds. Be sure to indicate stereochemistry where appropriate (e.g. *E* or *Z*).



4.(10) Propose a clear mechanism for the following reaction: vinylcyclopentane reacts with HBr to yield 1-bromo-1-methylcyclohexane.

5.(6) Draw a zig-zag structure of **3,4,6-trimethyl-3(*E*),5(*Z*)-octadiene**.