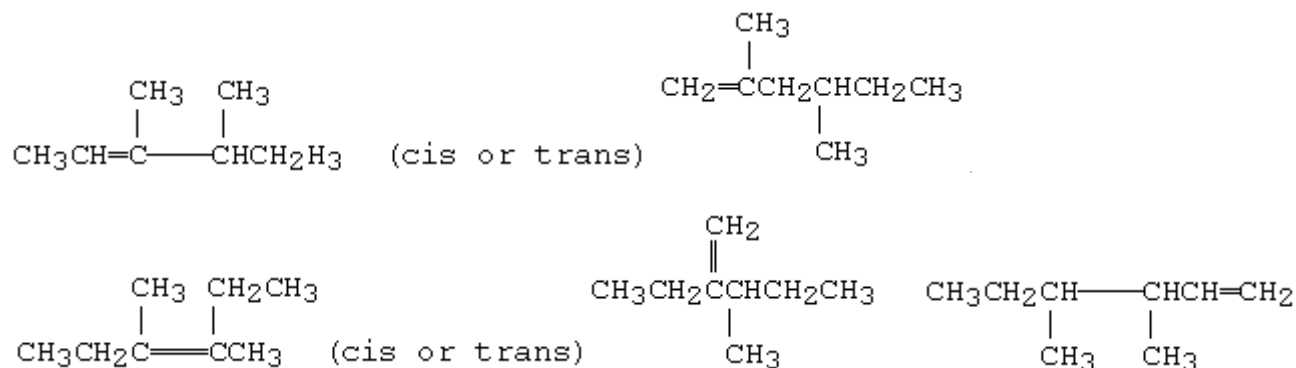
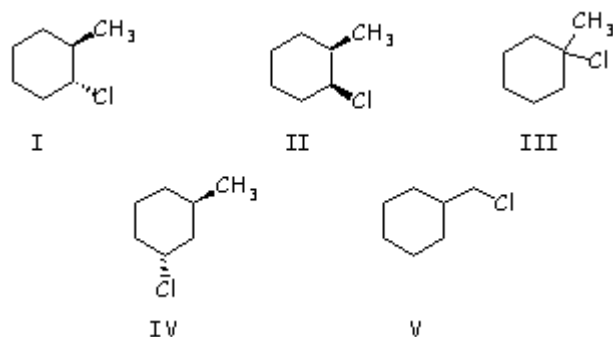


### Homework/Problem Set #8 Chapter 8 Alkenes. Addition Reactions

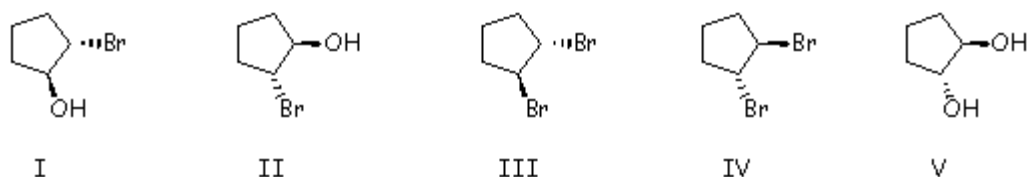
1. An alkene adds hydrogen in the presence of a catalyst to give 3,4-dimethylhexane. Ozonolysis of the alkene followed by treatment with zinc and acetic acid gives a single organic product. The structure of the alkene is:



2. Treating 1-methylcyclohexene with HCl would yield primarily which of these?



3. Which of these is not formed when cyclopentene reacts with an aqueous solution of bromine?



4. Give structure of organic compounds produced or write the missing reagents.

