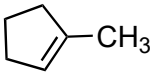
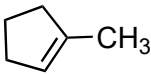
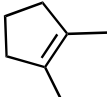
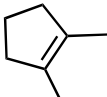
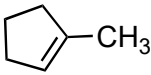
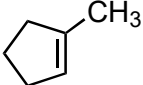
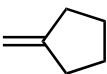
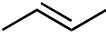
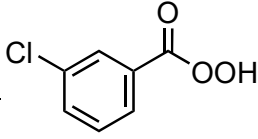
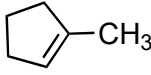


California State Polytechnic University, Pomona
CHM 3140 Organic Chemistry I, Dr. Laurie S. Starkey
Alkene Predict the Products Homework, Part I

Name: _____

Predict the major product(s) expected for each of the following reactions. **Remember to indicate stereochemistry, when appropriate.** If no reaction is expected, write NR.

- A)  $\xrightarrow[\text{CCl}_4]{\text{Br}_2}$
- B)  $\xrightarrow[2) \text{NaBH}_4]{1) \text{Hg}(\text{OAc})_2, \text{H}_2\text{O}}$
- C)  $\xrightarrow[\text{Pd}]{\text{H}_2 \text{ (excess)}}$
- D)  $\xrightarrow{\text{HCl}}$
- E)  $\xrightarrow[\text{H}_2\text{O}]{\text{Br}_2}$
- F) *E*-3-methyl-2-pentene $\xrightarrow[2) \text{H}_2\text{O}_2, \text{NaOH}]{1) \text{B}_2\text{H}_6}$
- G)  $\xrightarrow[\text{H}_2\text{SO}_4]{\text{H}_2\text{O}}$
- H)  $\xrightarrow[\text{ROOR}]{\text{HBr}}$
- I)  $\xrightarrow[\text{CH}_3\text{OH}]{\text{Br}_2}$
- J)  +  $\longrightarrow$
- K)  $\xrightarrow[2) (\text{CH}_3)_2\text{S}]{1) \text{O}_3}$