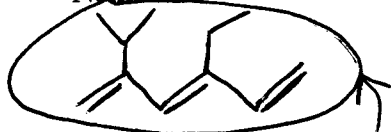
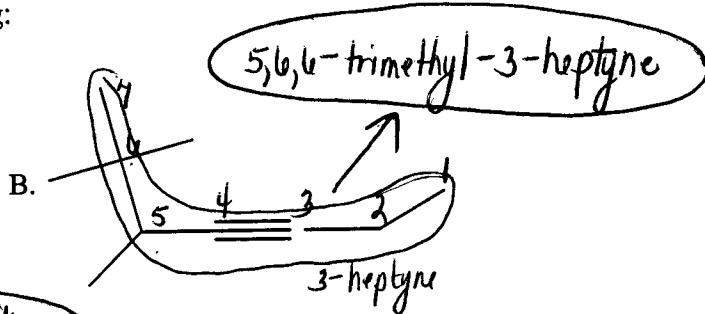


Chem 231: Problem Set #3 (on Chapter 3)

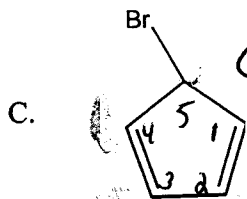
1. Name or draw structures for the following:



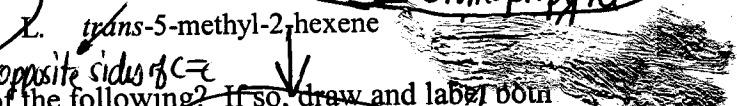
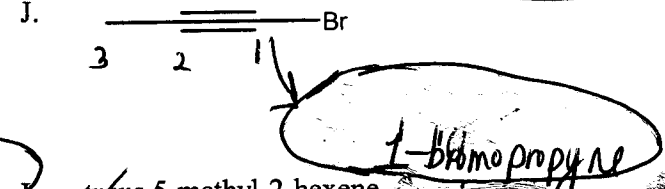
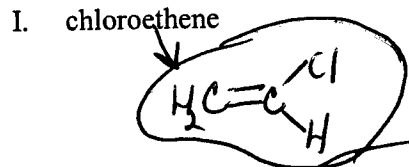
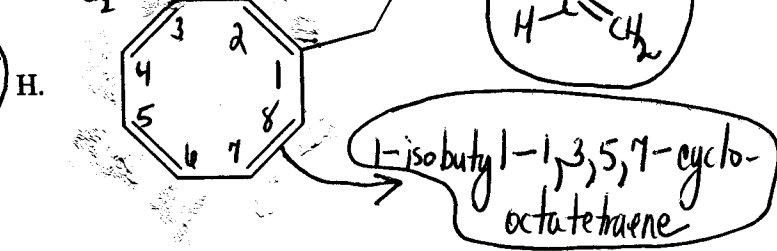
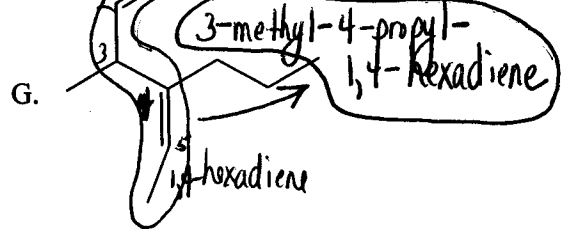
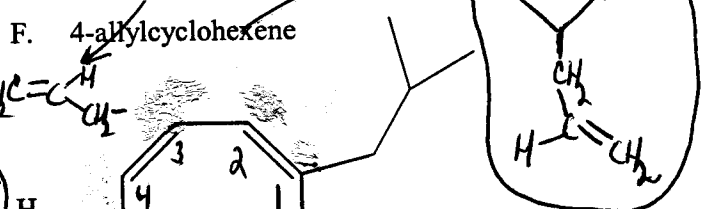
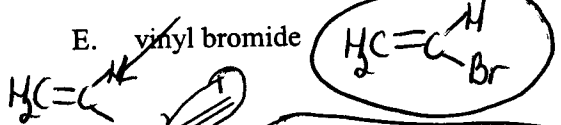
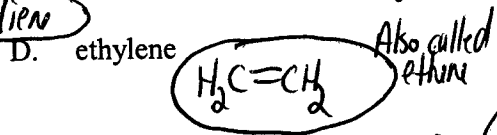
A. 4-ethyl-2-isopropyl-1,3,5-hexatriene
6C 3C=C



B. 5,6,6-trimethyl-3-heptyne



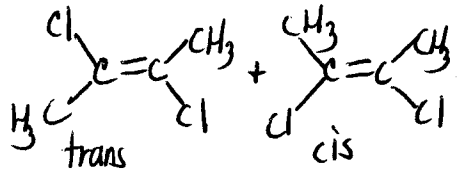
C. 5-bromo-1,3-cyclopentadiene



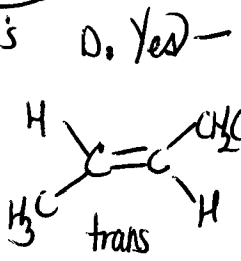
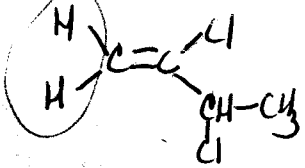
2. Are cis/trans isomers possible for each of the following? If so, draw and label both isomers.

- A. 2,3-dichloro-2-butene
- B. 2,3-dichloro-1-butene
- C. 1-pentene
- D. 2-pentene

A. Yes



B. No, because 2 groups are the same on one of the sp^2 C's



C. No, because 2 groups are the same on one of the sp^2 C's.

