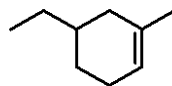
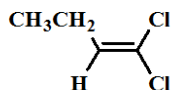
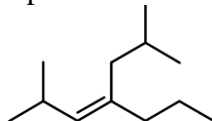
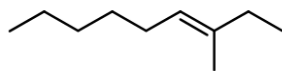


Alkene Nomenclature and Alkene Structure

1.

Name each of the following compounds according to IUPAC rules.



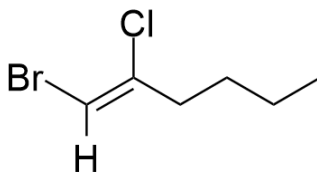
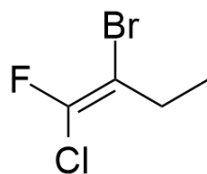
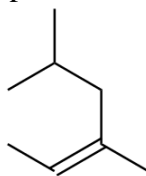
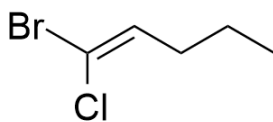
2. Draw the skeletal structure corresponding to the following names. Make sure to clearly indicate stereochemistry.

a. (*Z*)-4-methyl-1,4-octadiene

b. (*E*)-5-methyl-1,4-heptadiene

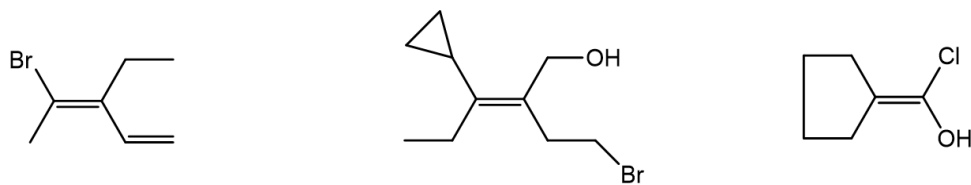
3.

Name each of the following compounds according to IUPAC rules.



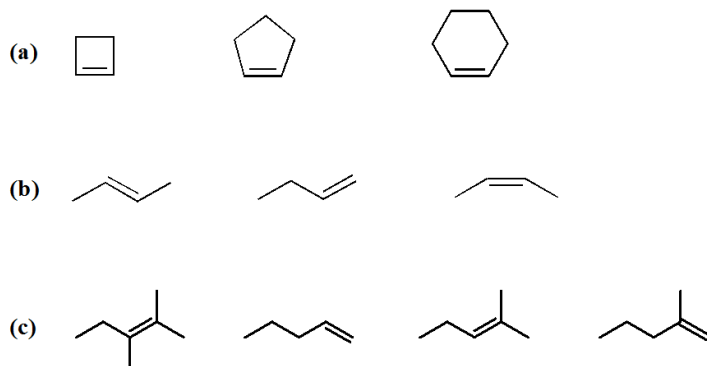
4.

Tell whether each molecule is the E or Z isomer.



5.

For each group of alkenes shown below rank them in increasing order of stability (most stable = 1). For each series, what is the main principle determining this stability?



6.

Rank the following cycloalkenes in order of increasing stability

