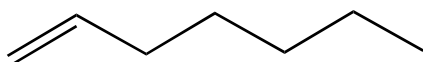
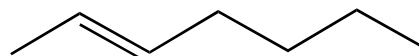


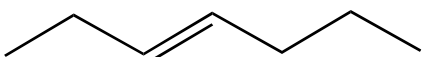
Exercise 9A - Alkenes and Alkynes



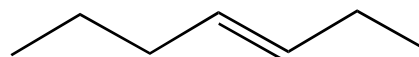
1-Heptene



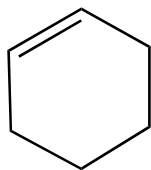
2-Heptene



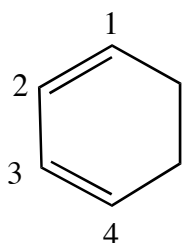
3-Heptene



3-Heptene



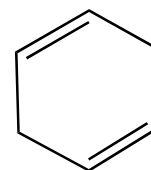
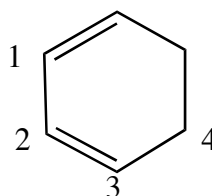
cyclohexene



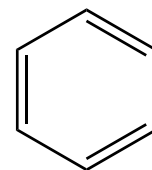
1,3-cyclohexadiene

Note that the numbering must go through the double bond.

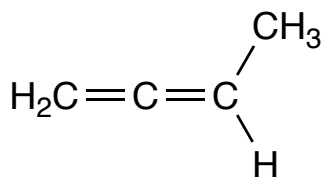
not



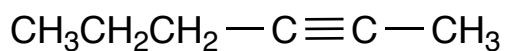
1,4-cyclohexadiene



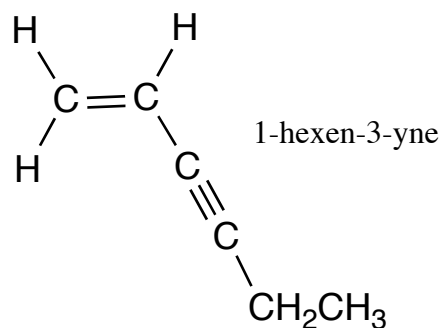
benzene



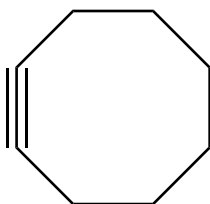
1,2-butadiene - these molecules (known as allenes) are perfectly stable.



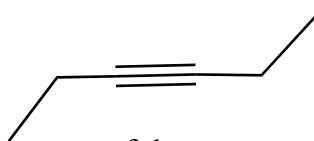
2-hexyne



1-hexen-3-yne



cyclooctyne
(the smallest ring that can accommodate a triple bond)



3-hexyne