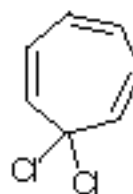
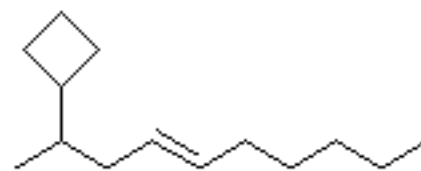
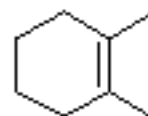
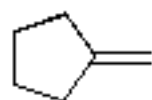
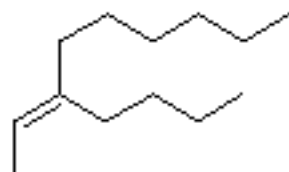
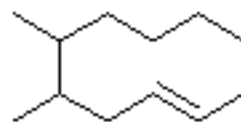
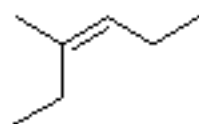
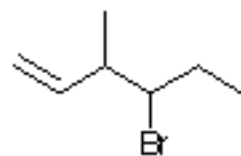


1. Give names for the following structures. Be sure to use E/Z where appropriate.



2. How many degrees of unsaturation are in each of the above molecules?

3. Draw structures for each of the following names.

2-methyl-1,3-butadiene

2-ethyl-1-butene

4Z-2,3,3-trimethyl-1,4-octadiene

3E-3,7-dimethyl-1,3,6-octatriene

cis-3,4-dibromocyclohexene

trans-3-methyl-5-bromocyclohexene

1,3-cyclohexadiene

1,2-butadiene

methylenecyclobutane

2,3-dimethyl-2-butene

3Z-2,2-dimethyl-3-heptene

4. Provide products for the following reactions.

