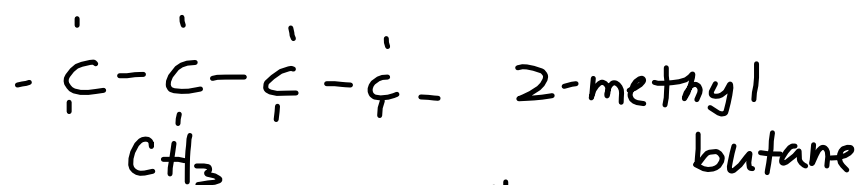
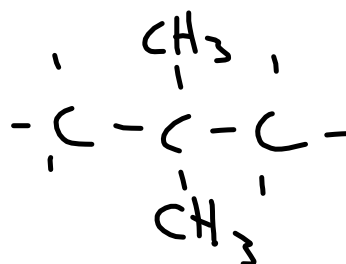


ISOMERS

Draw 3 isomers of C_5H_{12}

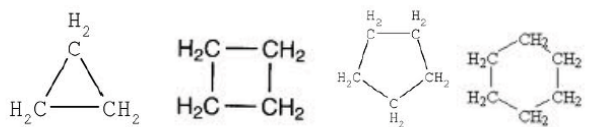


2,2-dimethyl
propane



HYDROCARBON RINGS (*cyclic*)

Cycloalkanes: Hydrocarbons containing rings of saturated carbon atoms.




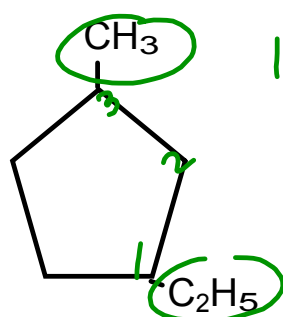
Cyclopropane cyclobutane cyclopentane Cyclohexane ...



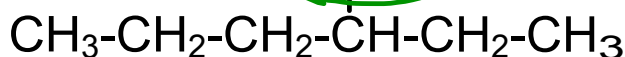
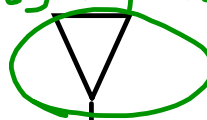
General formula: C_nH_{2n} (same as....?)
 ↳ alkene

Naming

1. When a parent chain forms a ring, we use the prefix "cyclo".
2. When there is a single functional group, no number is used.  methylcyclopropane
3. When more than one functional group is present, the first one (alphabetically) is arbitrarily placed at the "1" position and the ring is numbered to give the lowest possible set of numbers for branches.
4. A cyclic functional group is named like a simple branch but with the prefix cyclo.



1-ethyl-3-methylcyclopentane

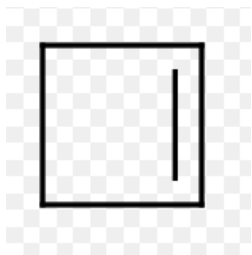


3-cyclopropylhexane

We can also have double bonds in a ring.

These would be cycloalkenes.

ex/



cyclobutene

