

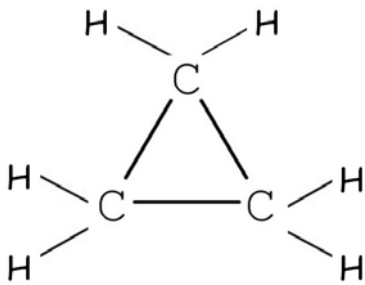
## Cycloalkanes

-saturated hydrocarbons

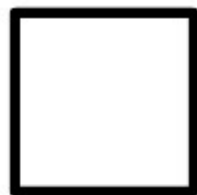
General formula:  $C_nH_{2n}$

naming cycloalkanes:

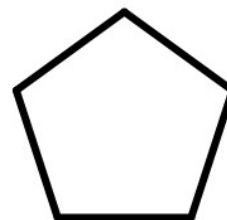
a) unsubstituted



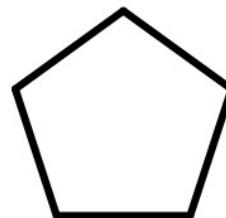
cyclopropane  $C_3H_6$



cyclobutane  $C_4H_8$

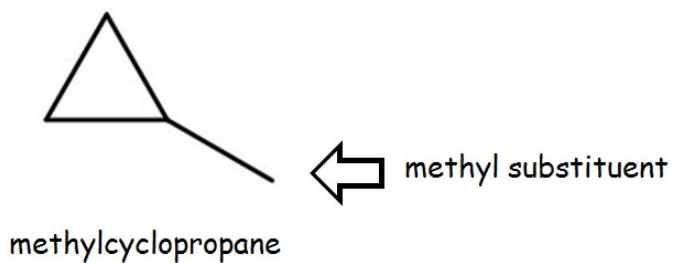


cyclopentane  $C_5H_{10}$

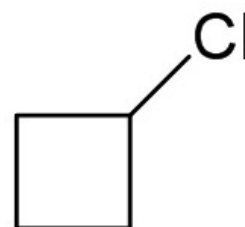


cyclohexane  $C_6H_{12}$

b) monosubstituted

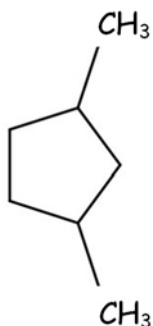


methylcyclopropane

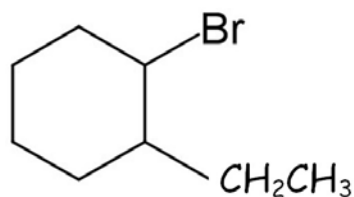


chlorocyclobutane

c) polysubstituted



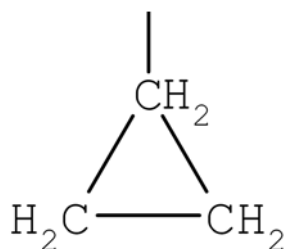
1,3-dimethylcyclopentane



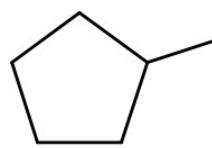
1-bromo-2-ethylcyclohexane

### Cycloalkanes as substituents

\* attached to a bigger chain of carbons



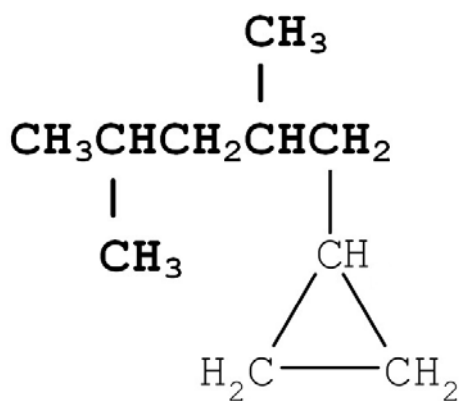
cyclopropyl substituent



\* attached to a bigger chain of carbons

cyclopentyl

ex:



2,4-dimethyl-1-cyclopropylpentane