

Lecture 24.4 Geometric Isomers

Note Title

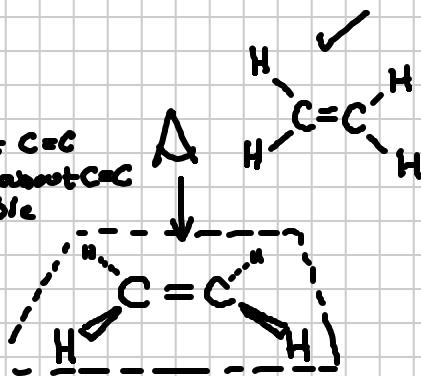
4/11/2012

Geometric Isomers: Molecular structures that differ
only in their arrangements about a
non-rotating bond.

Double Bonds:

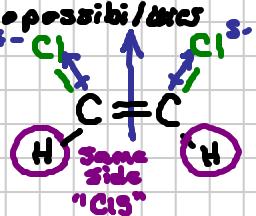


twist about C=C
no rotation about C=C
is possible

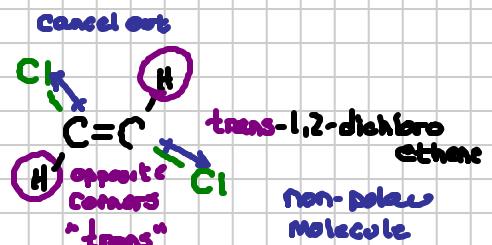


Example: 1,2-dichloroethene

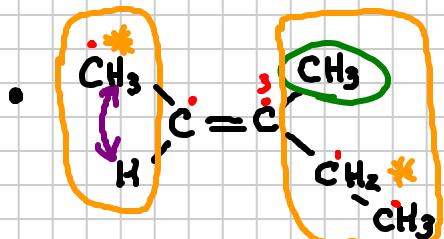
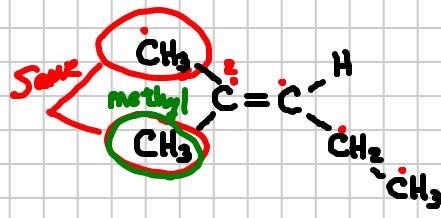
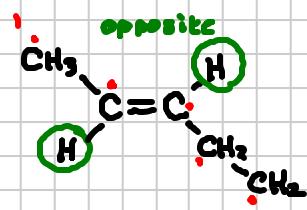
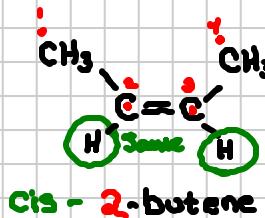
... two possiblities



cis-1,2-dichloroethene
polar molecule



Example. Name the following molecules:



E opposite

... or ...

