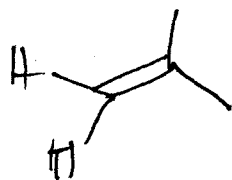
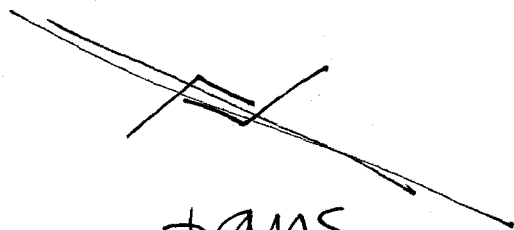


more alkene nomenclature

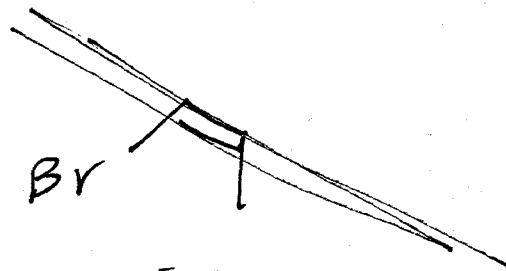
1. cis vs. trans - worry about this when both ends of the double bond have two different substs.



no cis/trans



trans
= opposite

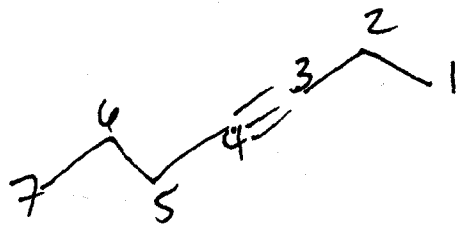


cis
= same

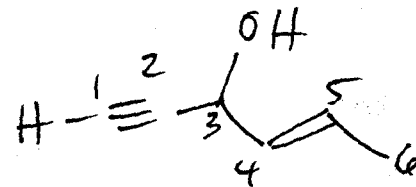
consider the double bond as a fence -
where are the two big groups? (one
from each end of the double bond)

Alkynes -

longest chain
ane becomes yne

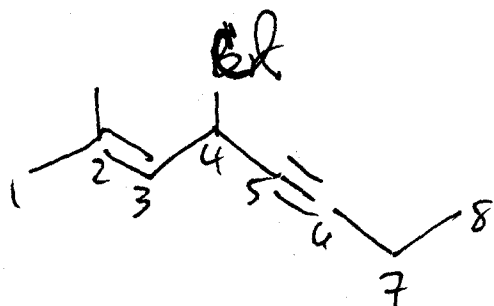


3-heptyne



trans -
hex-4-ene-1-yne-
3-ol

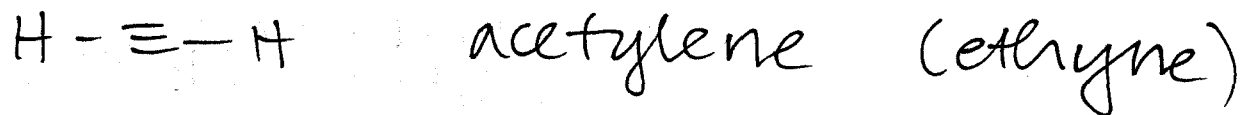
Double and triple - enyne
↑
priority



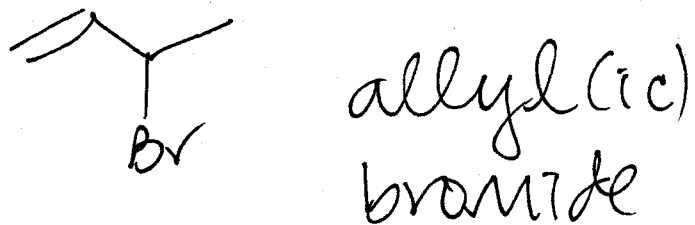
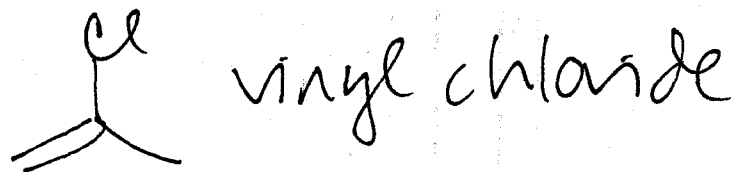
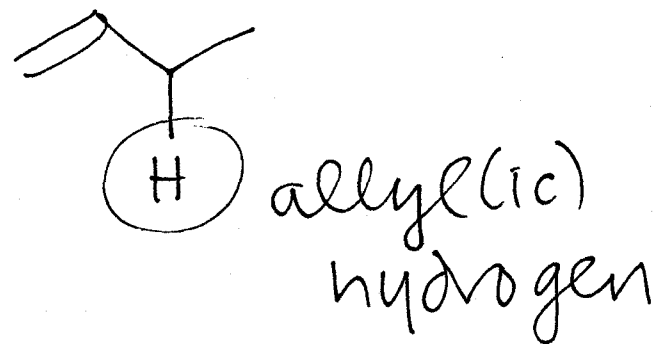
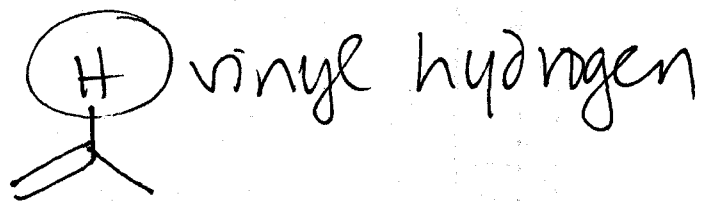
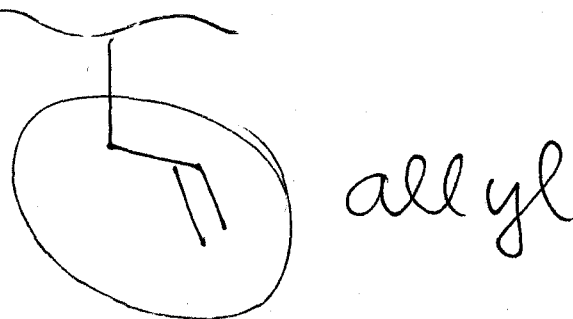
4-chloro-2-methyl-2-octen-5-yne

Add in an OH - now the OH is highest priority
enyndol

Common names:



Common fragments:



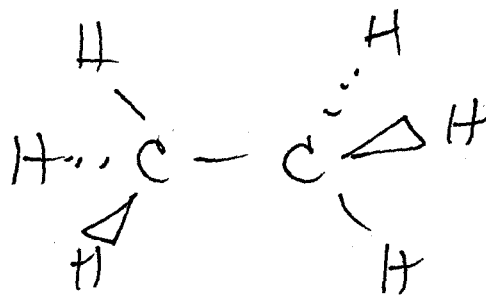
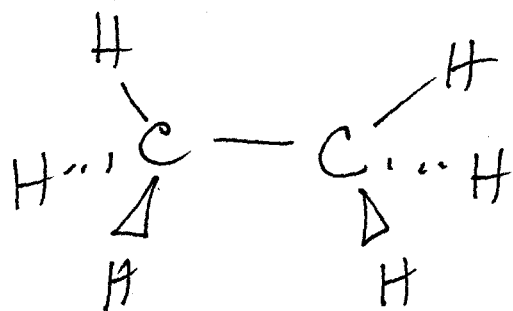
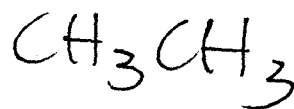
Back when we were discussing bonding models
of ethane, ethene, ethyne

* sigma bonds (axially symmetrical)

* pi bonds (not symmetrical)

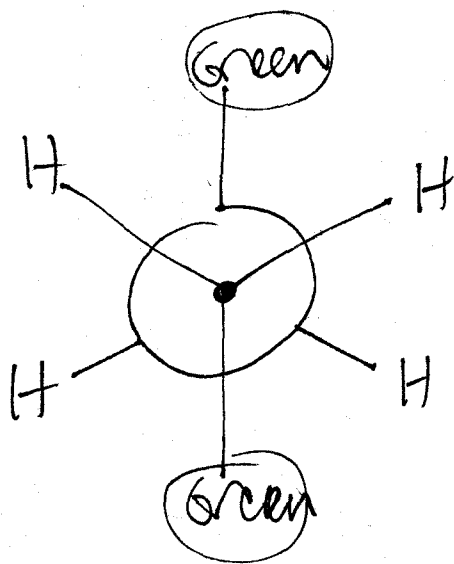
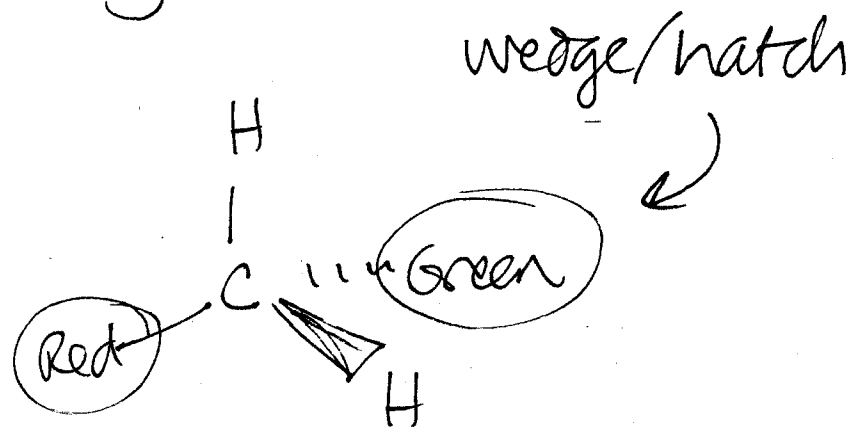
- bond line - added in wedges/hatches to
simulate 3D.

Consider ethane.



two different conformations
of the same molecule.

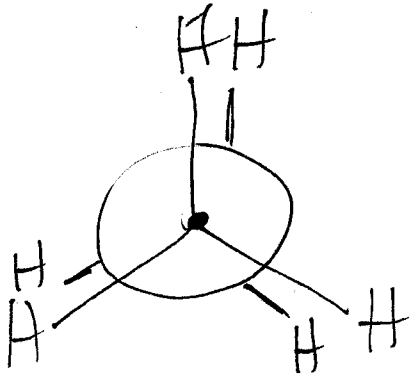
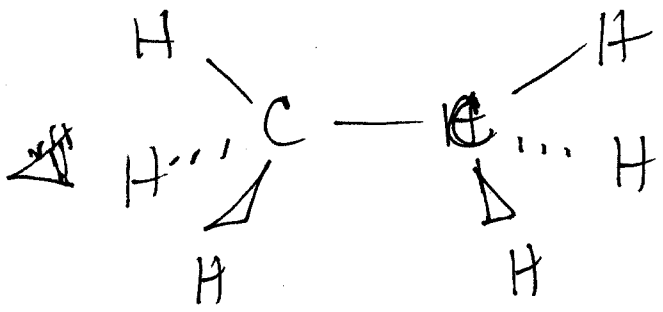
Learn to draw Newman projections.
Rather than a side view of a molecule,
we want to sight along a bond.



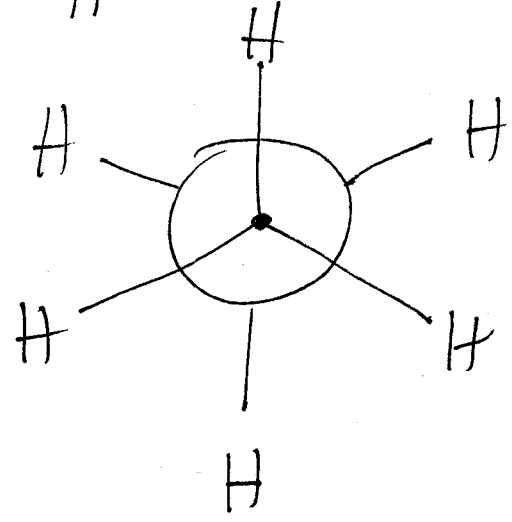
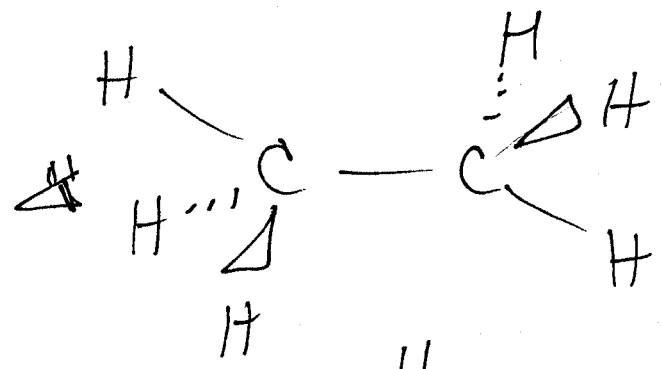
a Newman.

large circle is the atom
at the far end of the bond
in question.

dot is the atom at the
closer end of the bond
in question



eclipsed
conformation
high energy



staggered
conformation
low energy