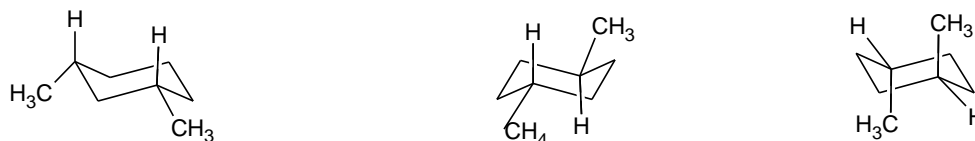
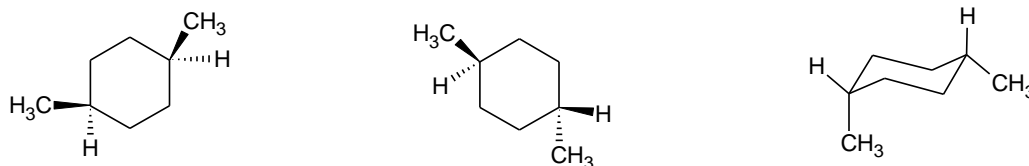
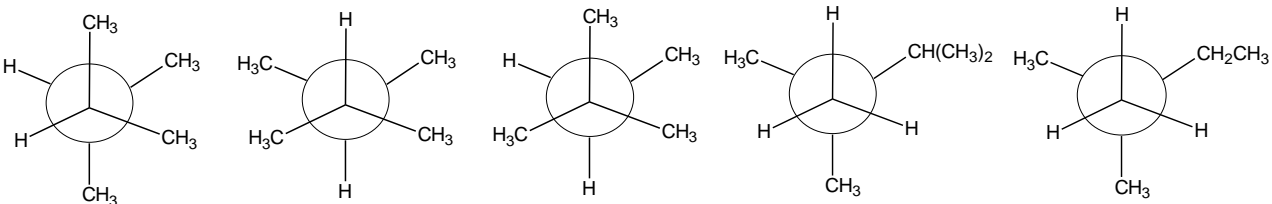


1. Identify if the following structures are the same, constitutional isomers, conformational isomers or different.

a)



b)



2. Use the Newman projection on the indicated bond, to draw the most stable conformer for each compound.

a) C2-C3 bond of 3- methylpentane

b) C3-C4 bond of 3,3-dimethylhexane

3. Draw the two chair conformations of each compound and label the substituents as axial and equatorial. In all cases determine the more stable conformer.
- a) (Cis)-1-ethyl-2-isopropylcyclohexane

b) (Trans)-1-ethyl-2-isopropylcyclohexane

c) (Cis)-1-ethyl-3-methylcyclohexane

d) (Trans)-1-ethyl-3-methylcyclohexane

e) (Cis)-1-ethyl-4-methylcyclohexane

f) (Trans)-1-ethyl-4-methylcyclohexane