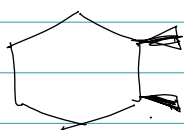
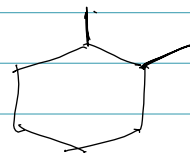


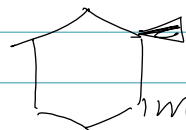
# Conformational Analysis - 3

cis & trans isomers (geometric isomers)  
 ↑  
 H-on same side      H are on opp side

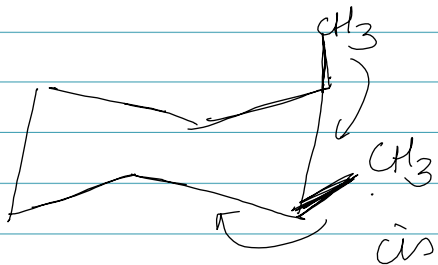
1,2-dimethylcyclohexane



cis  
 =  
 same  
 direction

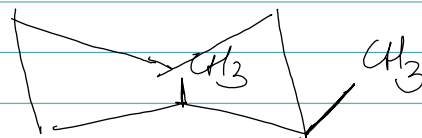


trans



cis

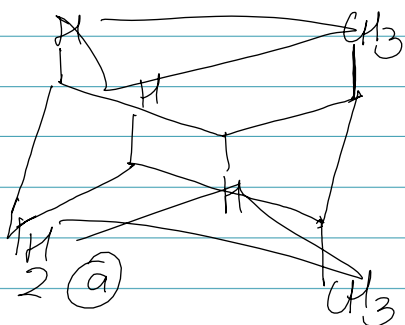
one a  
 one e



one a  
 one e

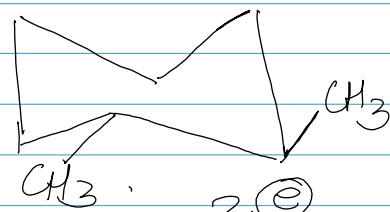
cis

same  
 in energy



2 @

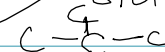
not stable



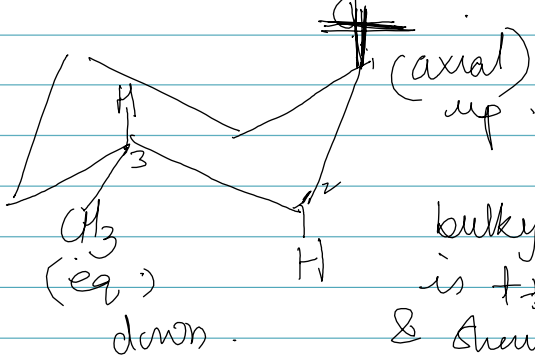
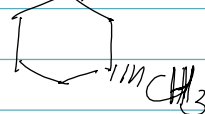
2 @

more

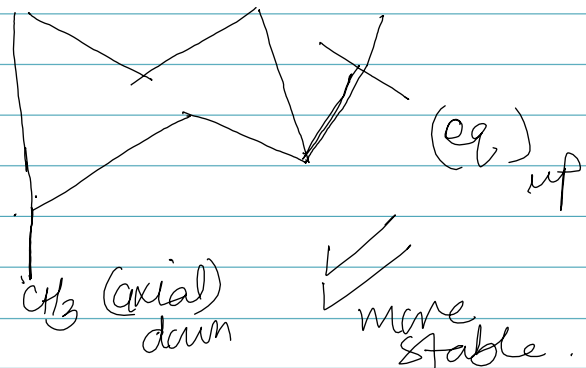
stable



→ trans-1-~~t~~butyl-3-methylcyclohexane



bulky grp  
 is t-butyl  
 & should be  
 eq



more  
 stable