

Chapter 2. Conformations, Advanced Practice

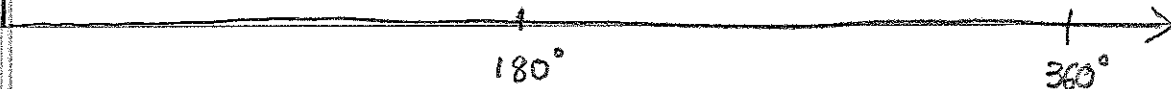
1. Draw all *cis* and *trans* isomers of dichloropentane.

cyclo

2. Draw the potential energy curve for the rotation of 2-methylbutane about its C2-C3 bond. Draw Newman projections for each maximum and minimum.

	~ energy cost (kJ/mol)
H ↔ H eclipsed	4
H ↔ Me eclipsed	6
Me ↔ Me eclipsed	11
Me ↔ Me gauche	4

Energy

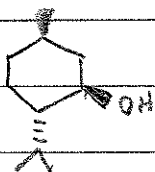


3. Draw both conformers of each of the following molecules & determine which conformer is more stable.

a. *cis*-1-ethyl-2-methylcyclohexane

b. *trans*-1,3-diphenylcyclohexane

c.



d.

