1. Draw the conformational isomers using Newman projections for each of the following. Label structures on an energy diagram.

a. 1-bromopentane (along the C1-C2 bond)

b. 3-(1-methylethyl)hexane (along the C3-C4 bond)

2. Convert the Newman projection into the line structure of the molecule.
3. Draw the two chair conformers and indicate the more stable one for each:

a. methylcyclohexane

b. cis-1,2-dimethylcyclohexane

c. cis-1,3-dibromocyclohexane

d. trans-1-chloro-3-isopropylcyclohexane

e.