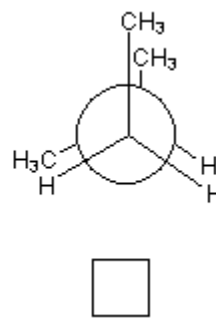
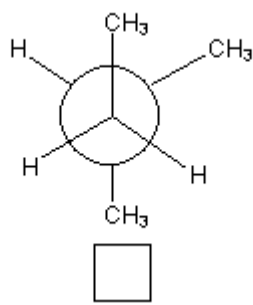
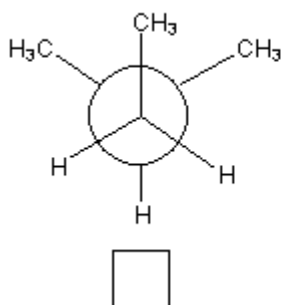


Quiz 9

1. Draw the least stable conformation of pentane using a Newman projection of the view along the C₂-C₃ bond.

2. Using the table of strain energies below, arrange the conformations of 2-methylbutane in order of increasing stability (1=least stable, 3=most stable). What is the difference in energy between the most stable and the least stable conformation?



Strain energies:

H-H eclipsing = 1 kcal/mol

CH₃-H eclipsing = 1.3 kcal/mol

CH₃-CH₃ eclipsing = 3.0 kcal/mol

CH₃-CH₃ gauche = 0.9 kcal/mol