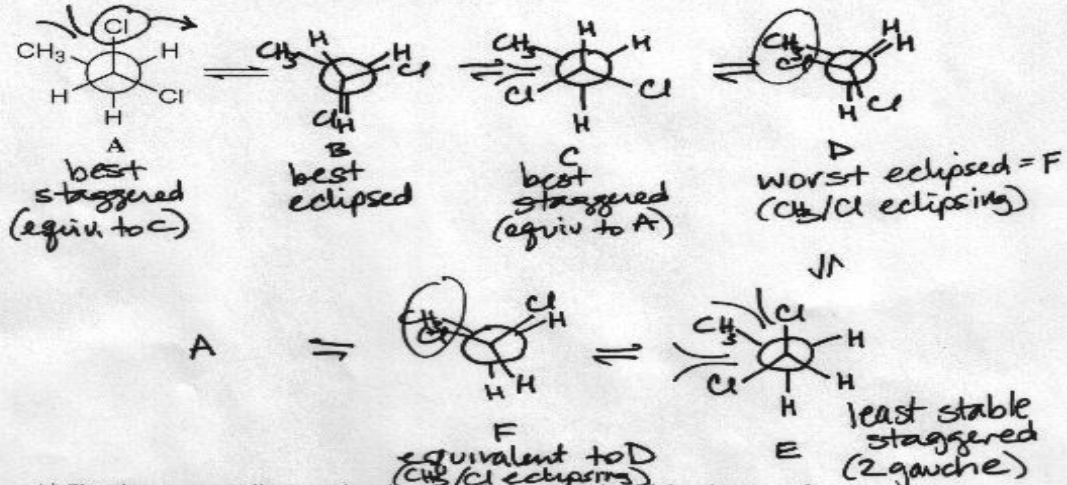


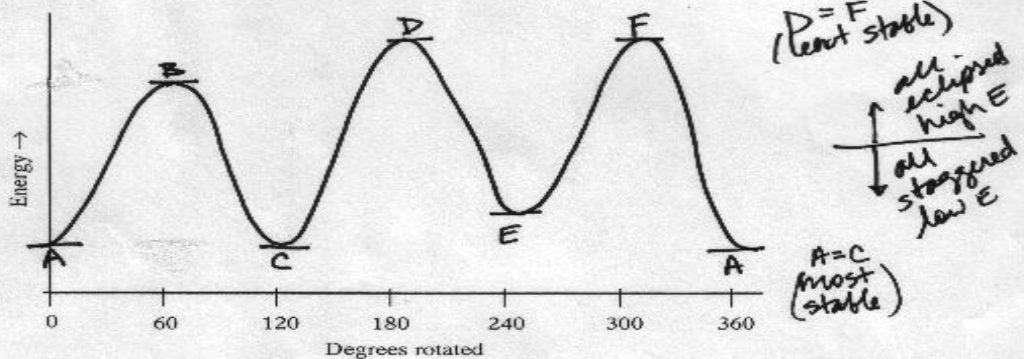
California State Polytechnic University, Pomona  
 Dr. L. S. Starkey, Organic Chemistry CHM 314, Conformations Homework

Name: **ANSWER KEY**

a) By rotating the front carbon clockwise and 60° at a time, complete the series of Newman projections (0° → 360° rotation). Assign a label to each (A, B, etc.) for use in part b.



b) Sketch an energy diagram showing the relative energies of the above conformers. Start with A at 0°. Remember to fully label your diagram.



(Hint: first determine which are highest in energy, which are lowest in energy and which have the same energy)