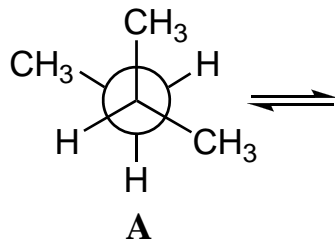


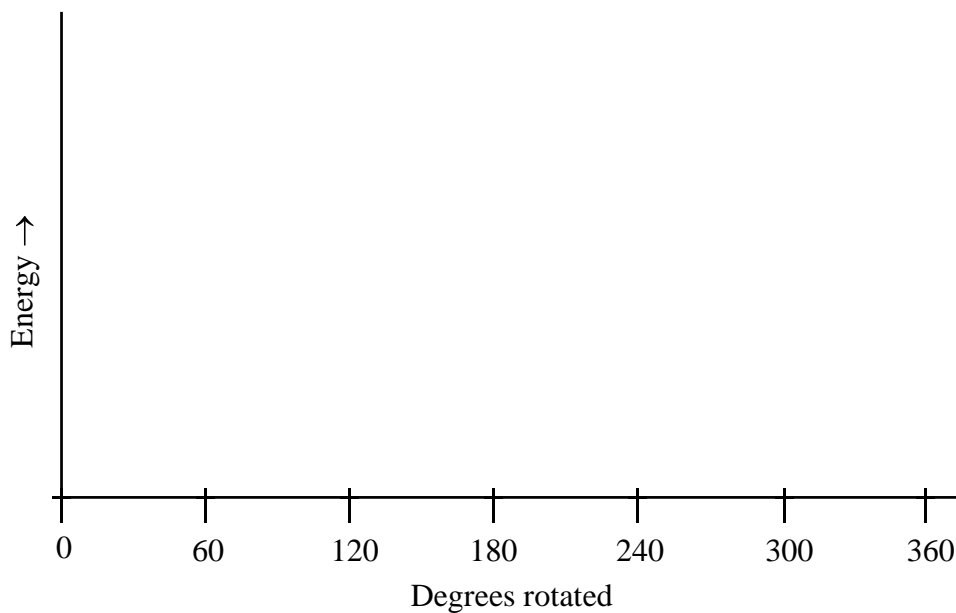
Library of Organic Chemistry Active Learning (LOCAL) Resources
Conformations of Alkanes

Name: _____ Section: _____ (day/time)

- a) By rotating the front carbon clockwise and 60° at a time, complete the series of Newman projections ($0^\circ \rightarrow 360^\circ$ 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)