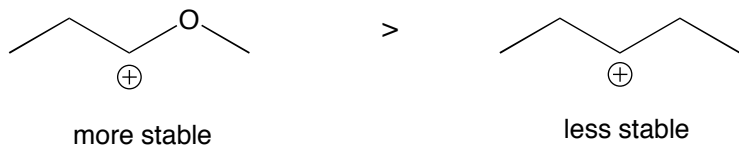


3. (15 pts) Draw both **Newman Projections** of *tert*-butylcyclohexane, circle the more stable conformation and briefly explain your reasoning.

Brief Explanation:

4. (10 pts) **Explain** with (as always) sentences and additional structures the order of stability of the structures below.



5. (10 pts) An unknown, $C_3H_6Br_2$, exhibits three signals in both the 1H - and ^{13}C -NMR. Draw all structures consistent with this information.