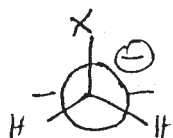
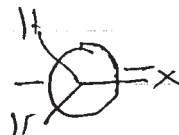
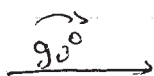


(836)

Answer is Hyperconjugation



Hyperconjugation



Hyperconjugation is zero

calculations show that the barriers to rotation are very high (e.g., for $X = Cl$ $\sim 16 \text{ kcal. mol}^{-1}$). The barrier is higher for more electronegative X , for $X = CH_3$ only 2 kcal. mol^{-1} .

Stereochemistry is determined by the hyperconjugation ability of X vs. R .

If hyperconjugation ability of $X > R$ one gets retention.

This is the case for all the systems studied experimentally so far.

It was a great pleasure to talk with you.

ע'180ק 773'

Yitzhak Apeloig