CHM 3140, Spring 2024 Dr. Laurie S. Starkey

6A) (8 pts) **Predict the major product** for the following $\underline{E2}$ <u>elimination reaction</u> and **provide a** <u>complete</u> mechanism. Pay close attention to details, including lone pairs, formal charges and the use of curved arrows. Show how you determined the major product. No work = no credit.



6B) (8 pts) Provide a structure that is consistent with the given ¹H NMR spectrum. Show your work and justify your answer by labeling each set of protons on the structure a/b/c to match the a/b/c peaks in the spectrum, and use the table to confirm the δ value for each set of protons. No work = no credit.

