Prelab 7b; week of November 17

1. Step 1 produces the following aldol product. Label all the sets of equivalent protons A, B, C, etc., and then describe them in terms of splitting (doublet, doublet of triplets, etc.)

2. Step 2 produces the following aldol condensation product. How can the proton NMR be used to show that the trans product, rather than the cis product, is the major product? How can proton NMR be used to determine the product distribution between the cis and trans alkenes?

3. Step 4 produces the following final product. Label all the sets of equivalent protons A, B, C, etc., and then describe them in terms of splitting (doublet, doublet of triplets, etc.)