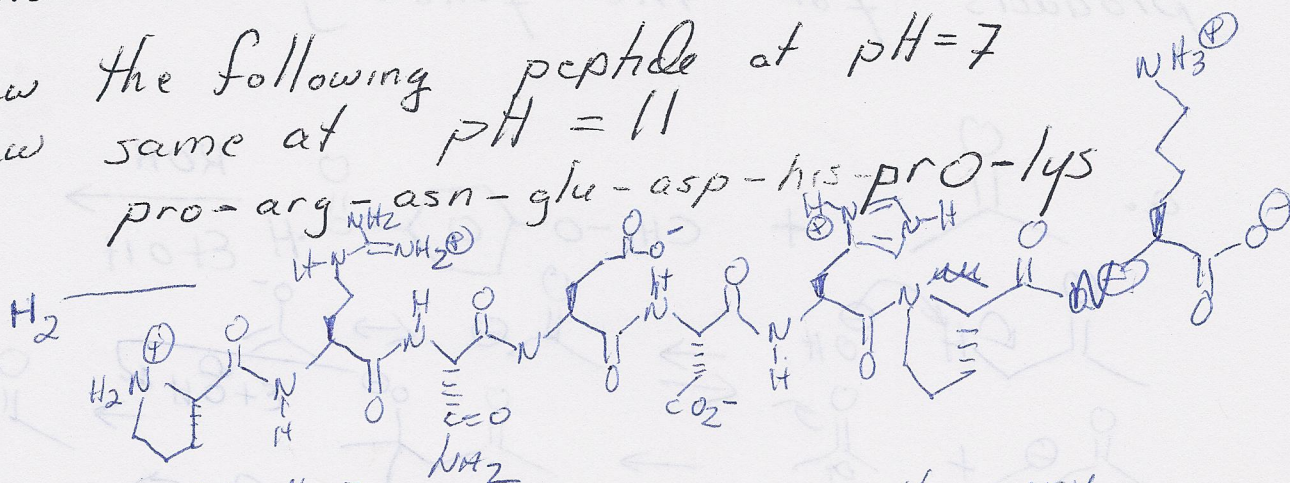


Friday April 29, 2011
Problem Session

①

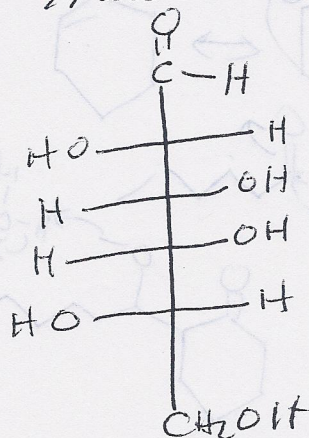
- ① Draw the following peptide at pH=7
Draw same at pH=11
pro-arg-asn-glu-asp-his-pro-lys



At pH=7

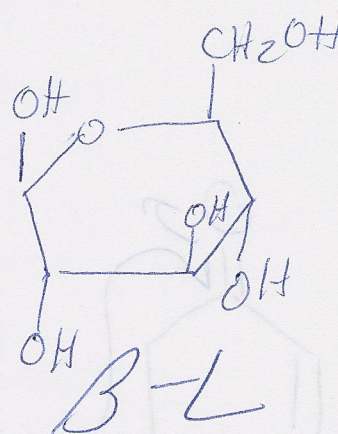
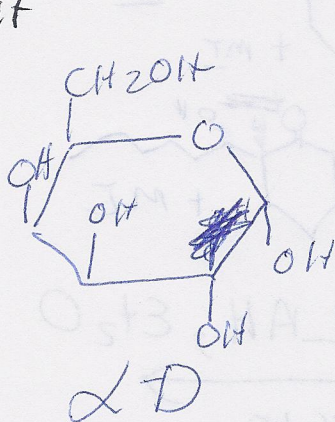
pH 11 is a little high, but at the very least the protons would be removed from arg, his, lys

2. Draw Haworth of following aldohexose

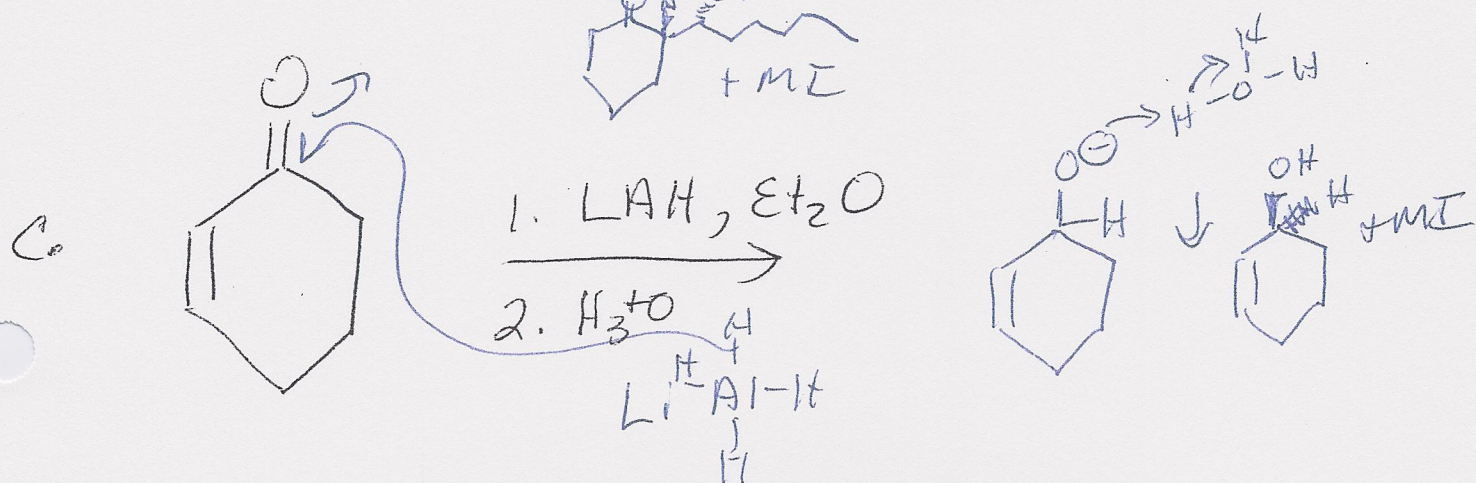
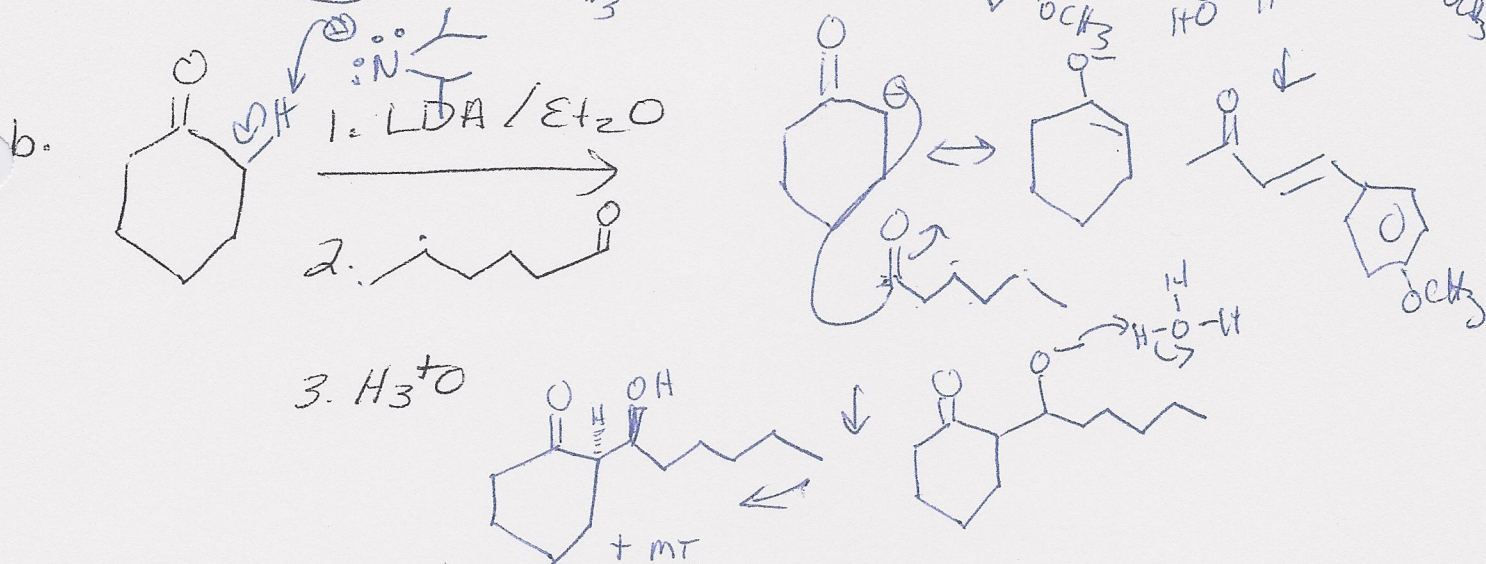
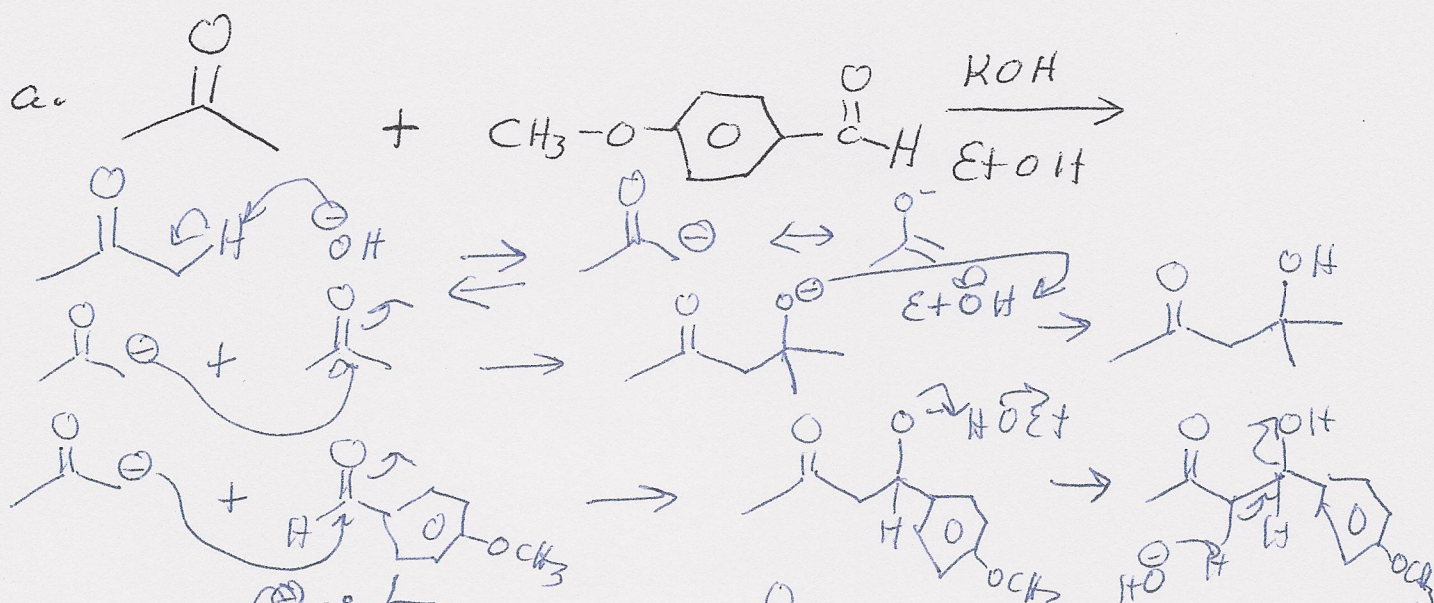


Draw α -D

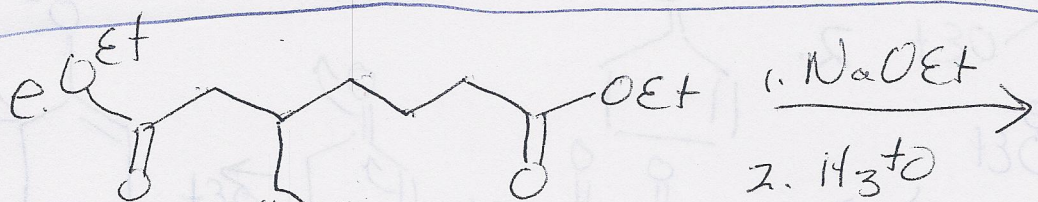
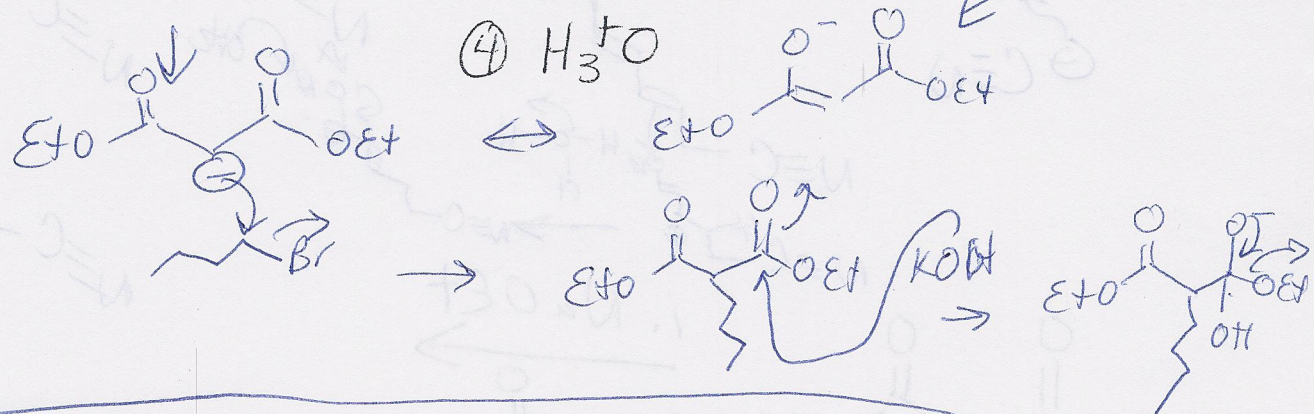
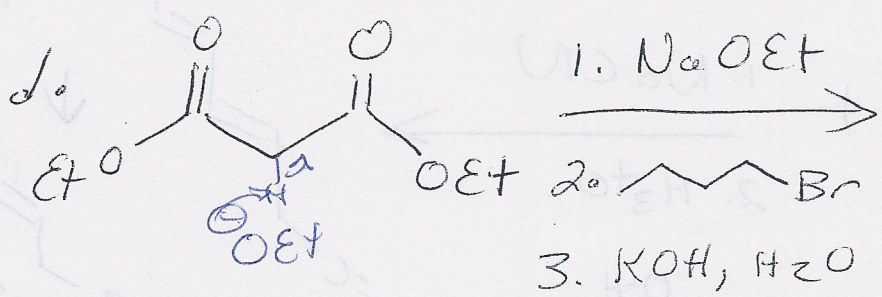
Draw β -L



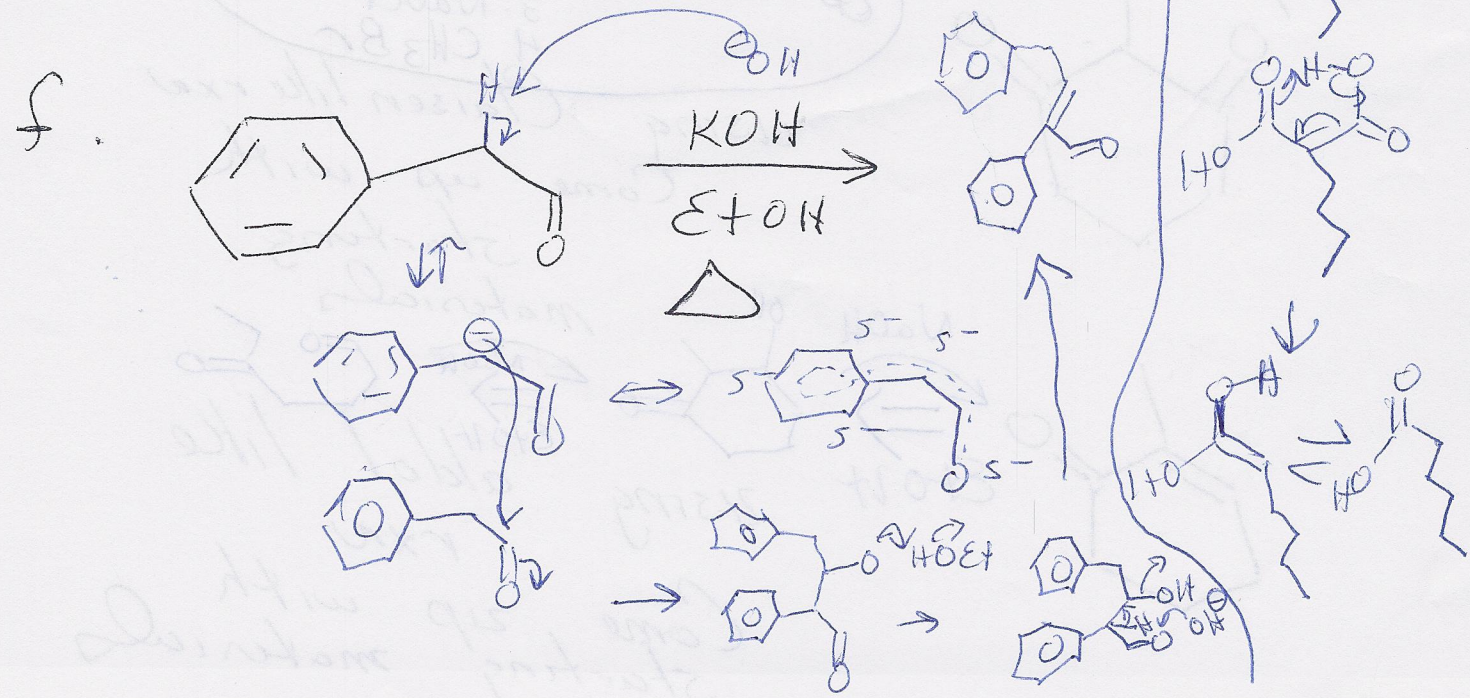
3. Write mechanisms leading to major products (2)
products for the following reactions



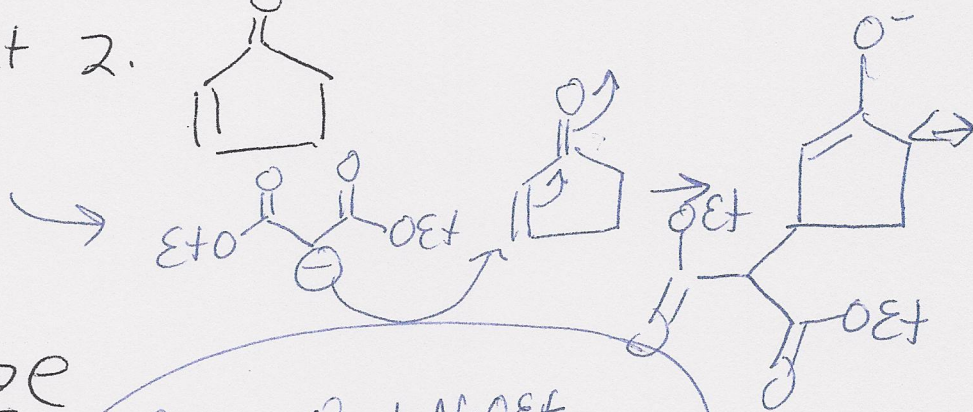
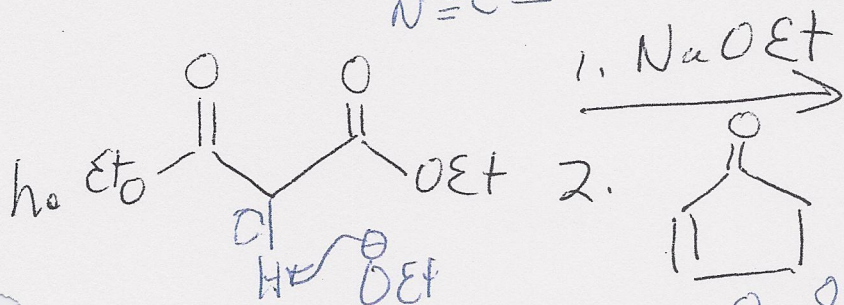
3



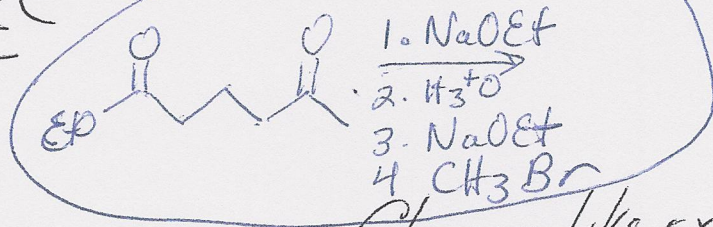
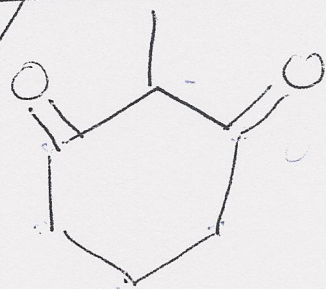
See attached



4

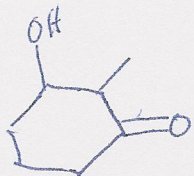
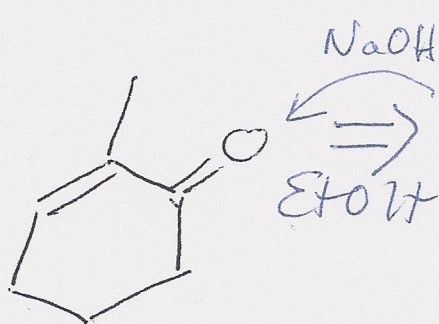


Synthesis

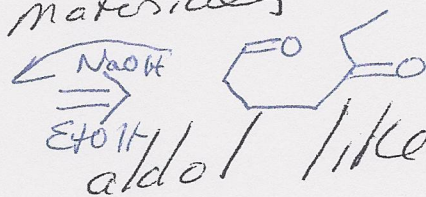


using Claisen like rxn

Come up with
starting
materials



using

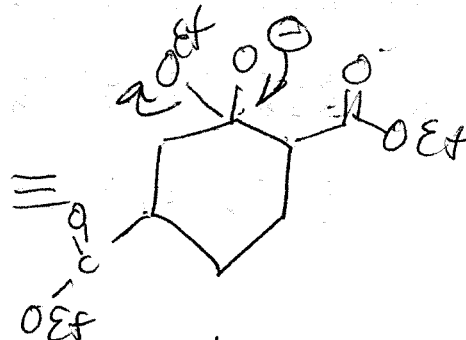
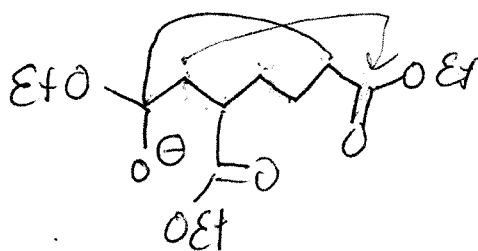
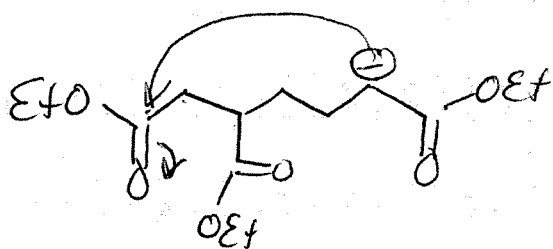
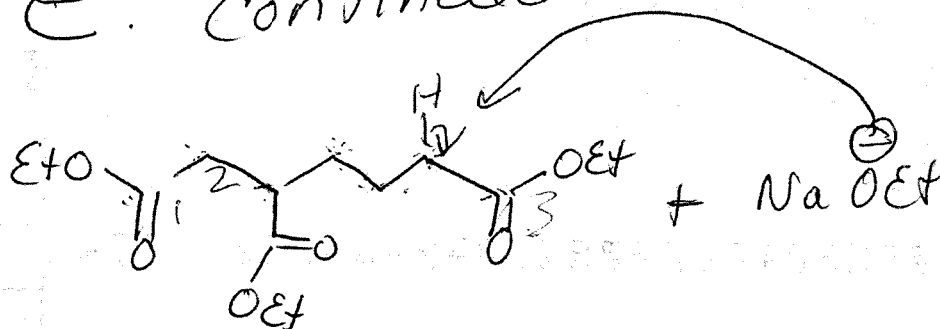


aldol like rxn

Come zip with
starting materials

e. continued

(5)



OTHER COMBINATIONS

