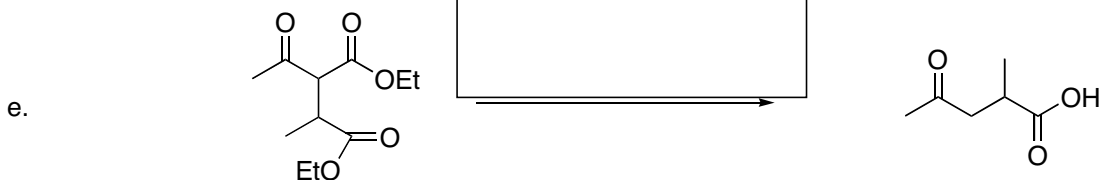
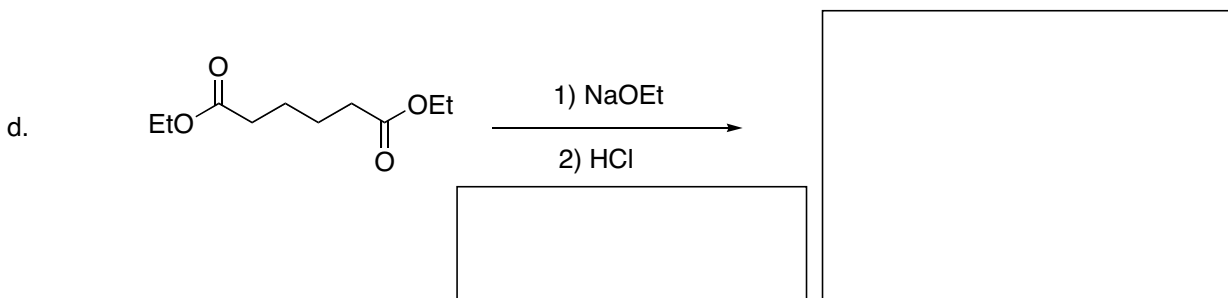
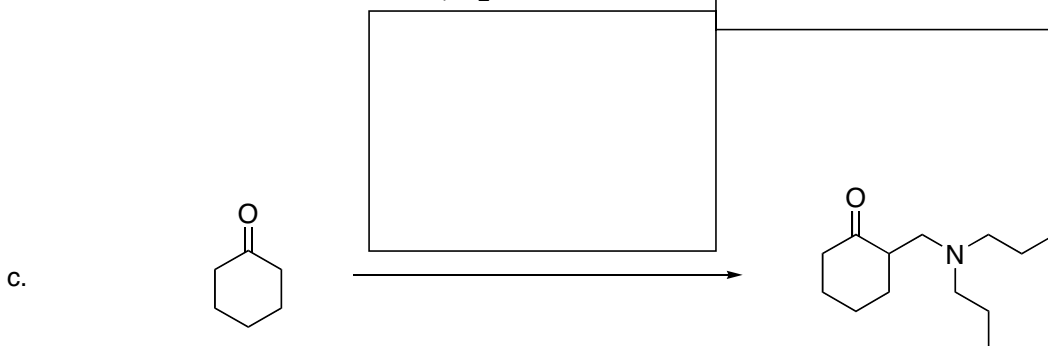
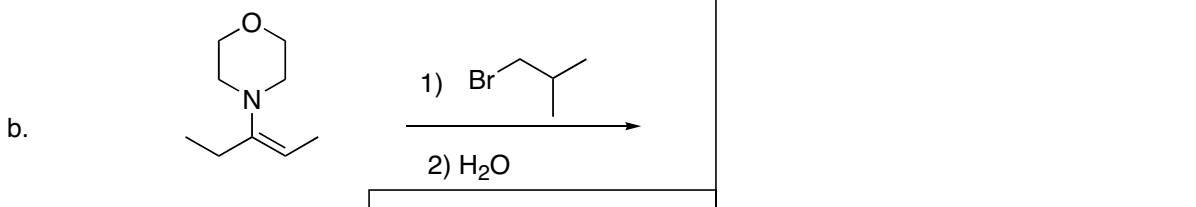
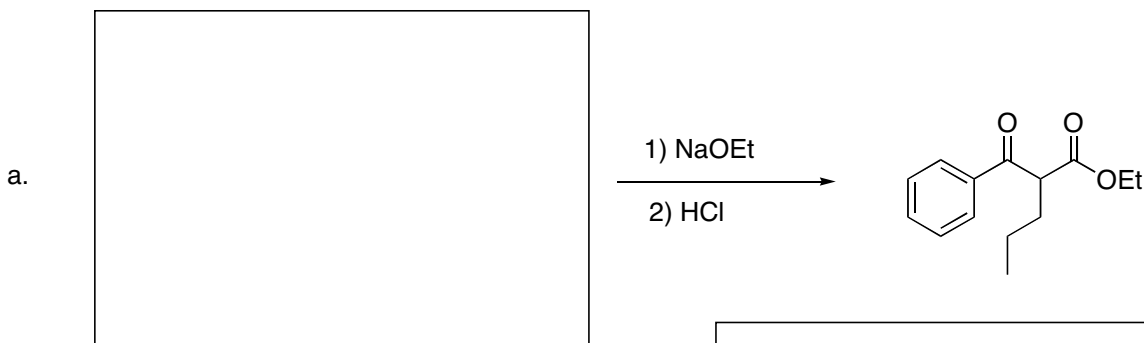


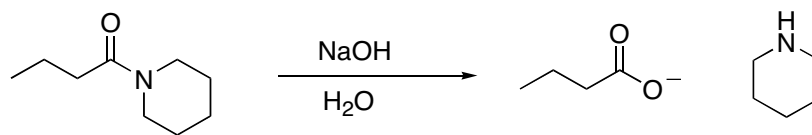
CH 232, Spring 2003  
Dr. Shaughnessy  
Problem Set #6  
Due, 9:00 AM, March 14<sup>th</sup>, 2003

Name: \_\_\_\_\_

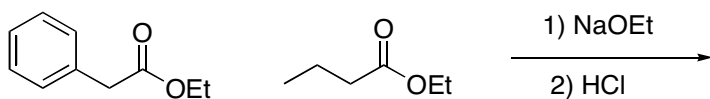
1) Fill in the missing reagent(s), starting material(s), or product(s) in the reactions below.



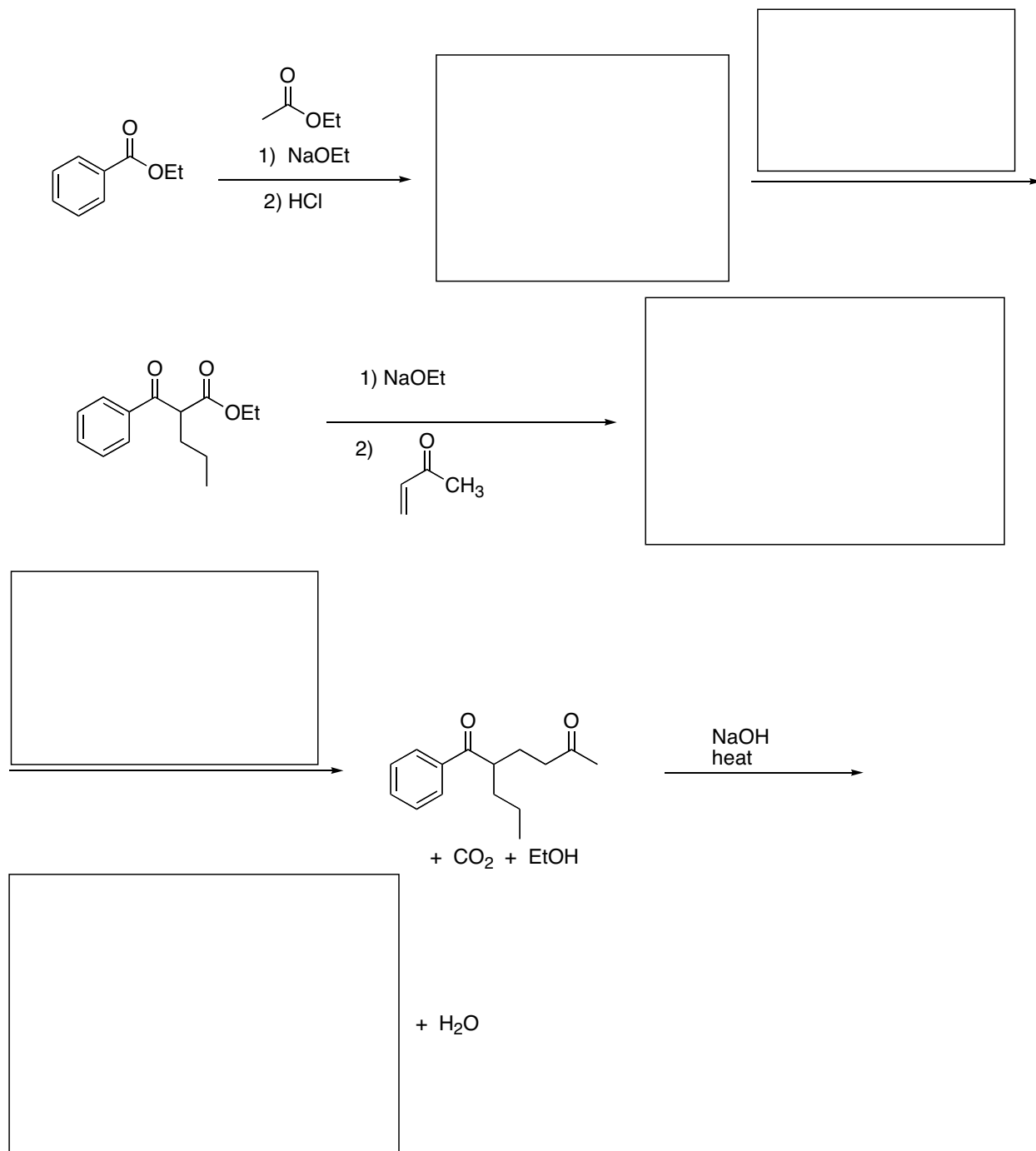
2) Provide a detailed mechanism for the hydrolysis of the amide shown below under basic conditions.



- 3) Joe Bob, an 8<sup>th</sup> year senior, is trying to do a crossed-Claisen condensation of the two esters shown below. Unfortunately for Joe Bob, he's going to get a mixture of 4 different  $\beta$ -ketoester products. Draw all four possible products for the Claisen reaction below.



4) Fill in the missing reagents or intermediates in the synthetic scheme below.



5) Provide a synthesis for each molecule shown below starting from the indicated compound. In addition to the starting material, you may use any necessary reagents.

