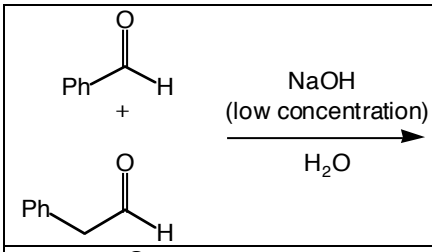
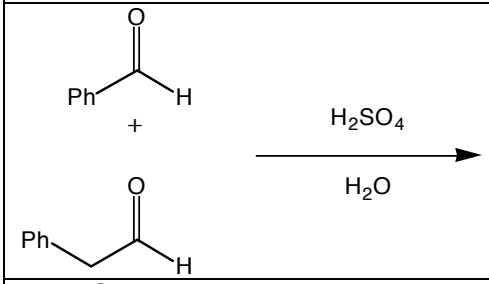
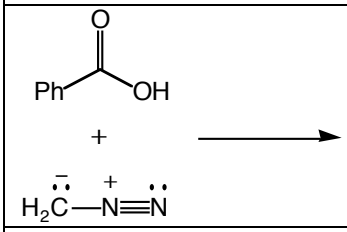
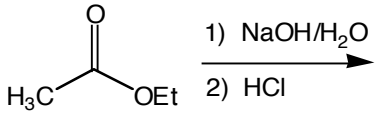
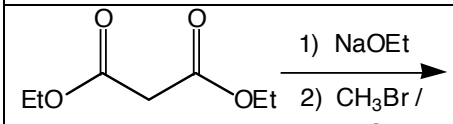
PRACTICE EXAM QUESTIONS: CARBONYL CHEMISTRY MODULE

Predict the reaction products for the following reactions. You should be able to write curly-arrow mechanisms for each reaction.

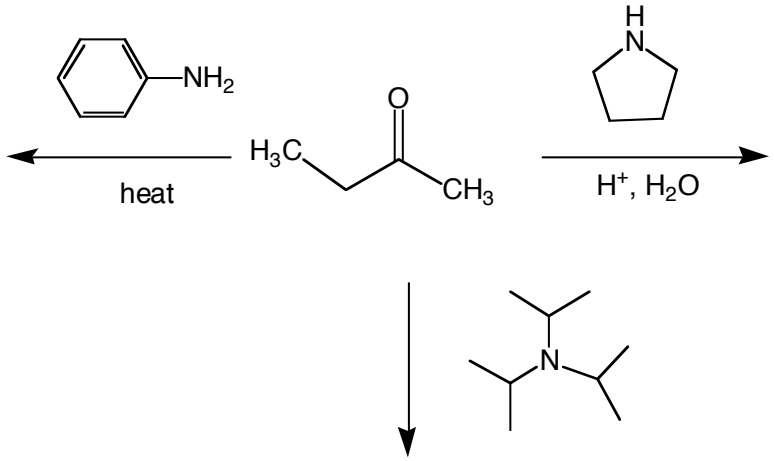
The ketone shown below is subjected to reaction with the amines shown below.

a) Which of the three reactions will give a product with an enamine?

b) Draw the curved arrow mechanism that results in formation of a neutral tetrahedral intermediate species in the reaction to make an enamine.

c) Why won't the other two amines form an enamine?

d) What will be the outcome of the other two reactions?



Match the reactants on the right with the products on the left.