

Name: _____

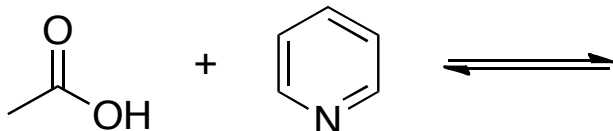
January 21, 2011

SID: _____
Chem 30C

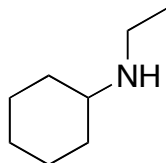
Discussion Section: 9:00am 11:00am 12:00pm
(please circle)

Quiz 1

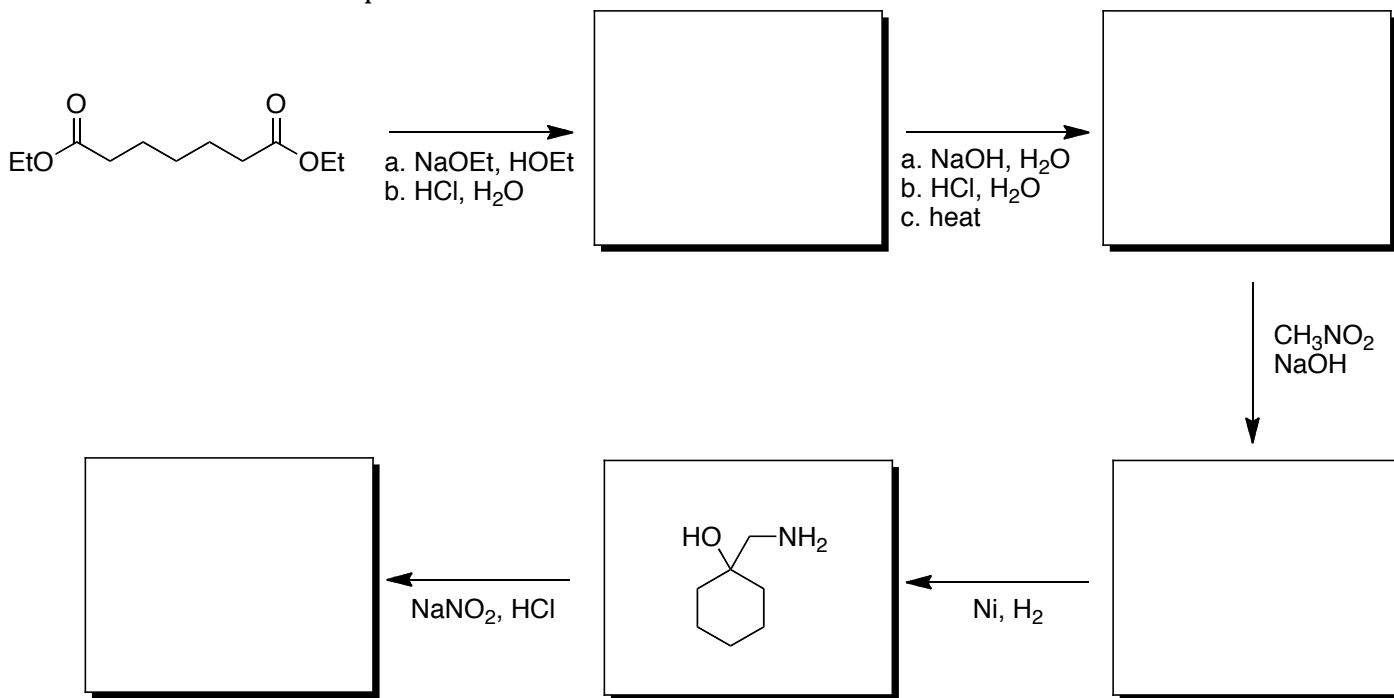
1. Complete the following acid-base reaction and predict the direction of equilibrium (to the right or to the left) for each. (Acetic acid: $pK_a = 4.76$, Pyridinium cation: $pK_a = 5.21$)



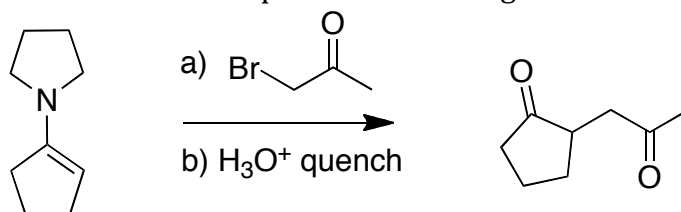
2. Name the following using common nomenclature:



3. Provide the compound for each transformation:



4. Propose a detailed mechanism to explain the following reaction:



5. Devise a reasonable synthesis for the following compounds from reagents you are familiar with and the starting material provided.

