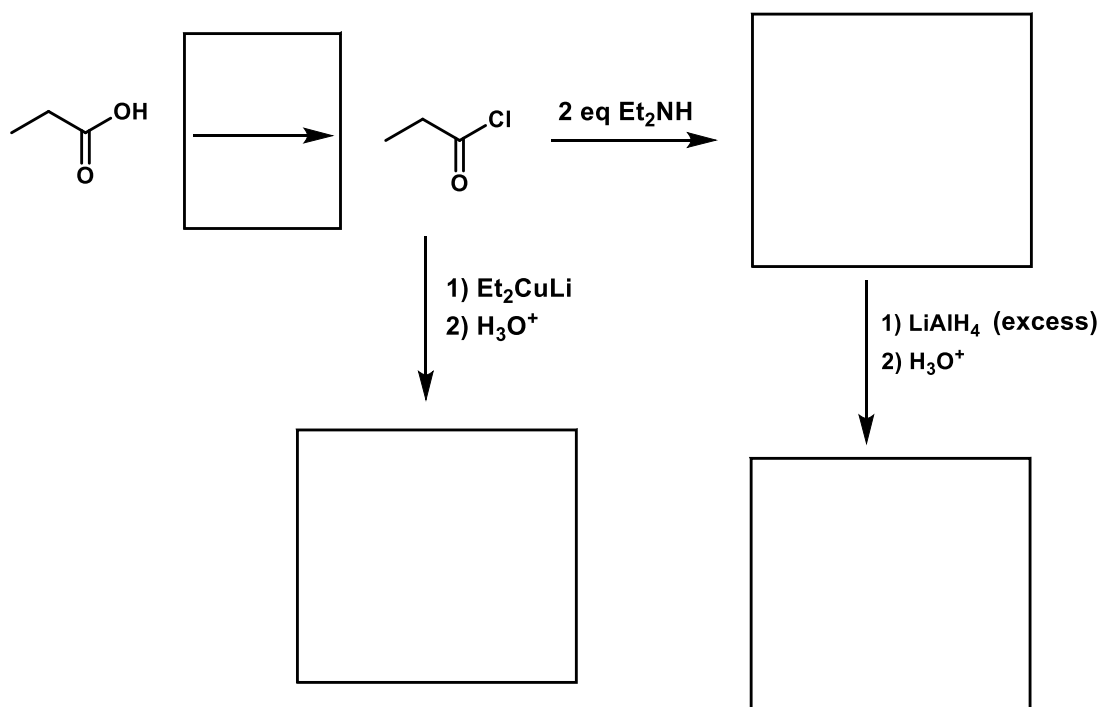
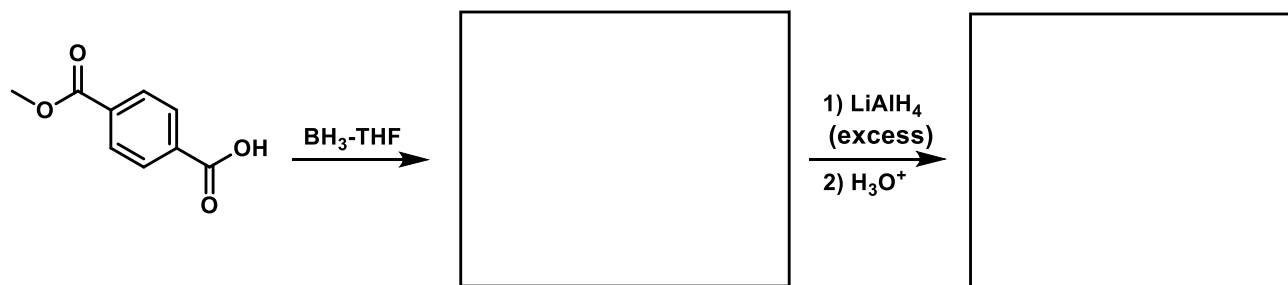


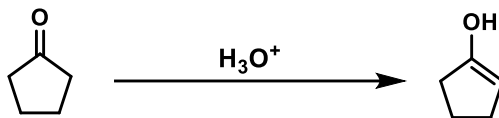
Quiz 5

1. Fill in the missing products, reactants, or reagents below.

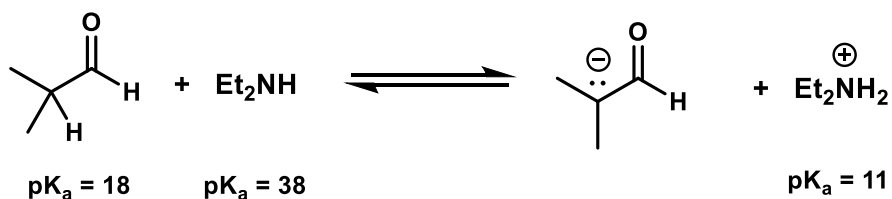


Et = ethyl group

2. Provide a step-wise mechanism for the following transformation.



3. For their lab synthesis project, a student plans to use Et₂NH (diethylamine) as a base to form an enolate ion, as shown by the reaction below. Do you think this is a good choice? Use pK_a values to calculate K_{eq}, and use this to explain your answer. (hint: one of the given pK_a values is not relevant to this reaction)



$K_{eq} =$



Explanation:

