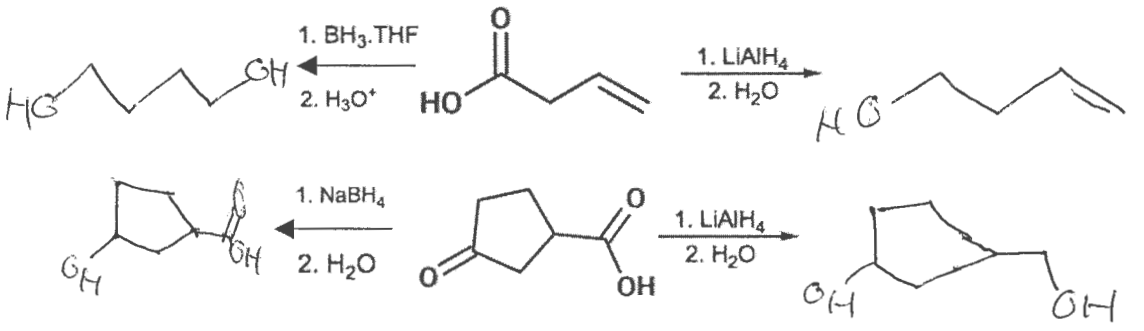
Worksheet #8

1. Determine the products of the following reactions



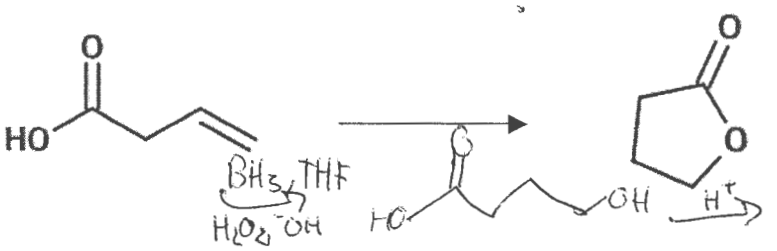
2. What are the reagents, products, and catalyst of Fischer Esterification?

Carboxylic Acid + Alcohol ; ester ; acid

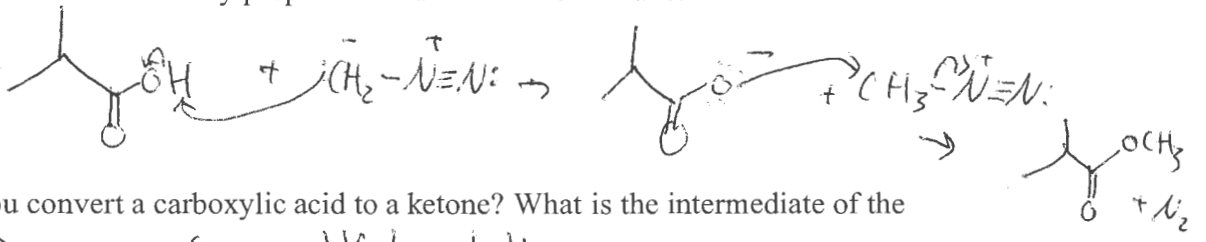
3. What are some limitations to a base catalyzed esterification?

Can't have 3° alkyl halide (Sn2 RXN)

4. Propose a synthesis to form the following product.



5. Show the mechanism of 2-methylpropanoic acid with diazomethane.

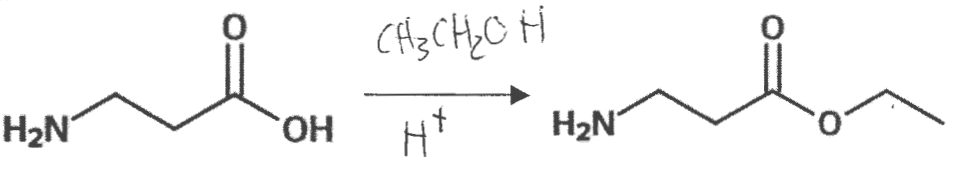


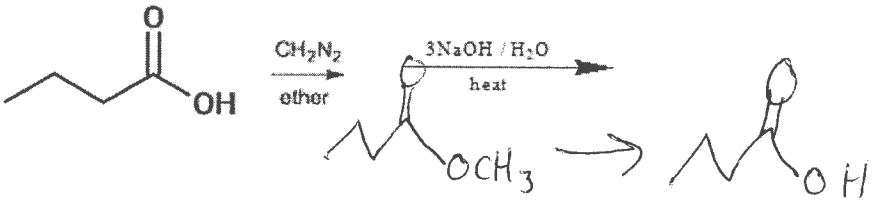
6. How would you convert a carboxylic acid to a ketone? What is the intermediate of the reaction?

2 eq of alkyl Lithium

7. Complete the following reactions

a.



b.

c.