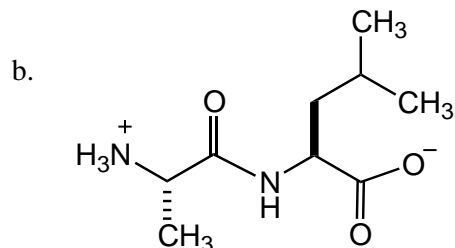
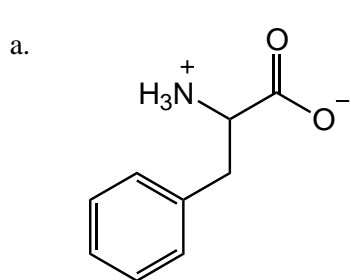


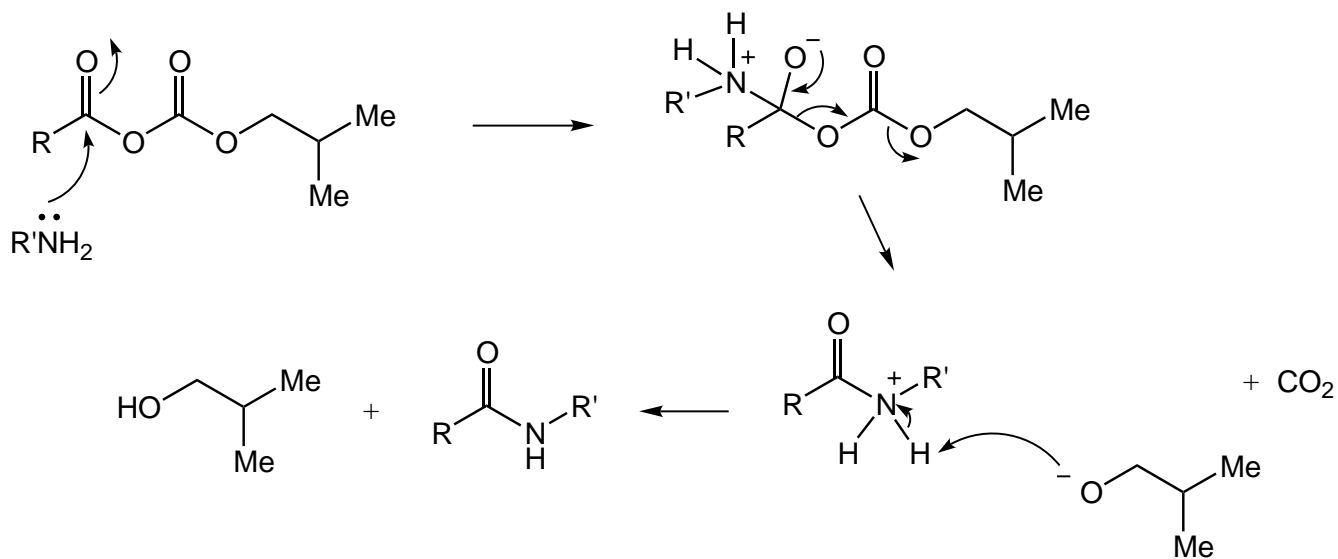
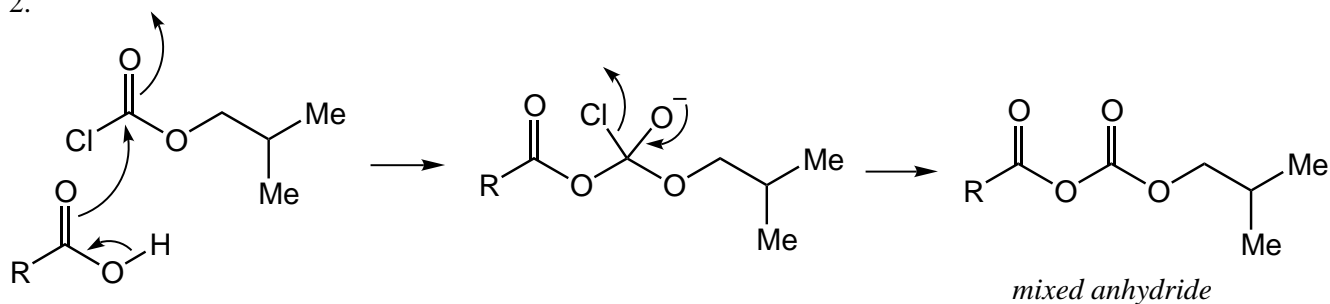
Organic Chemistry c3444y
Problem Set 8 - Amino Acids and Proteins I
Answer Key

1. Draw the expected product of the following reactions:



Hydrogenation will also remove the benzyl ester!

2.



The amine does not attack the other carbonyl because it is attached to two oxygens, both of which have resonance structures with the carbonyl. To the extent these oxygens are donating into the carbonyl, the carbonyl becomes less electrophilic.