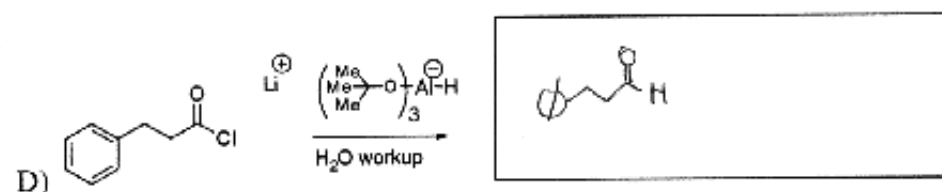
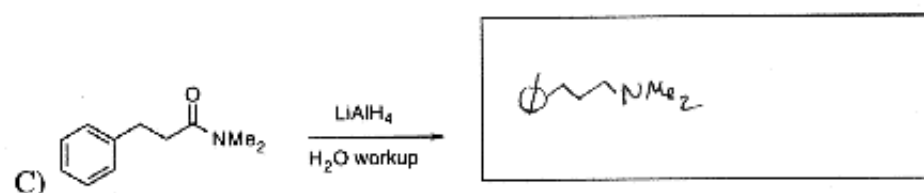
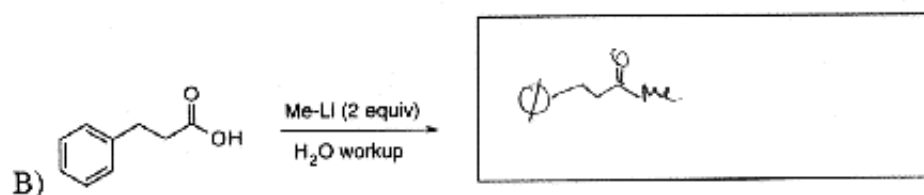
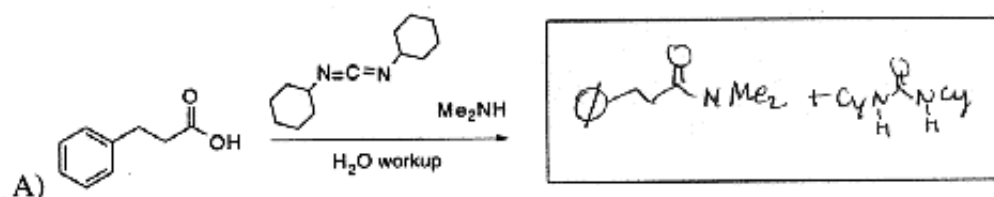
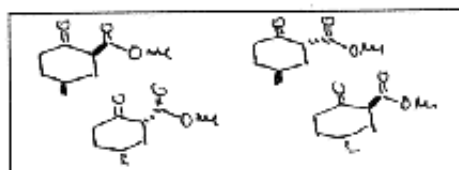
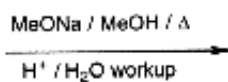
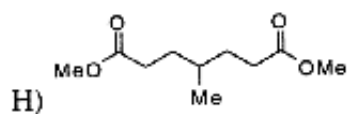
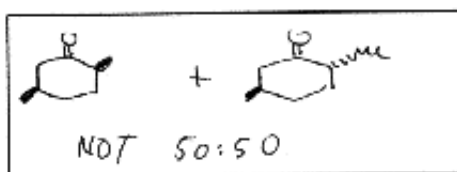
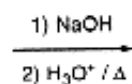
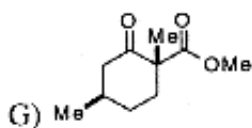
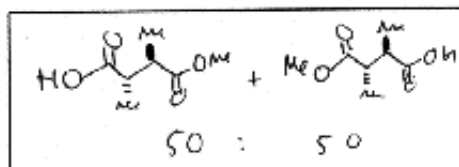
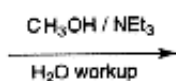
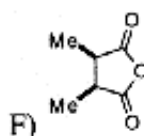
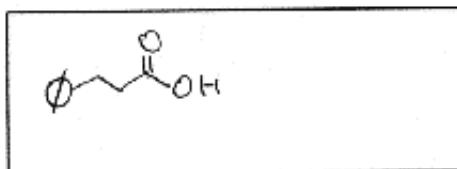
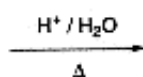
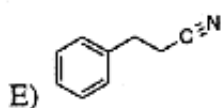


1) Provide the products of the following reactions. If no reaction would occur, then write NR. Draw all possible stereoisomers (i.e., draw dashed and bold lines as needed) and indicate if they would be produced in equal or unequal amounts. Please write your answers in the box provided (5 points each)

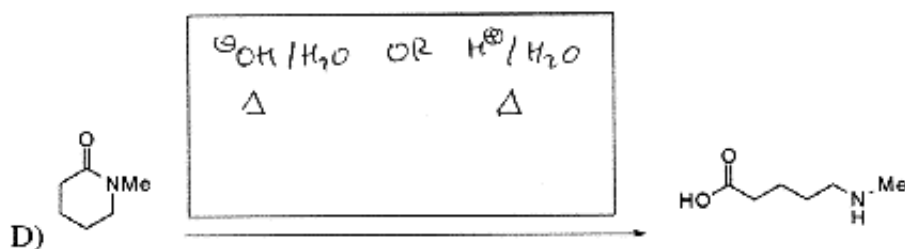
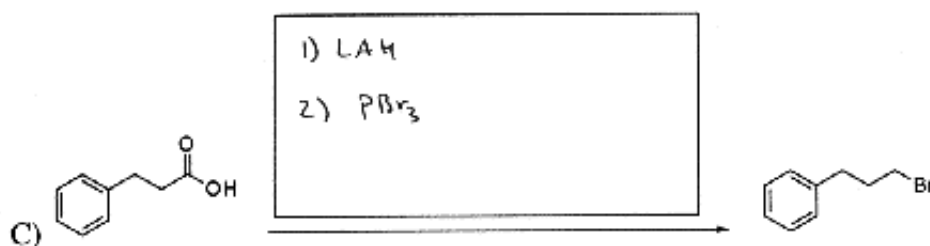
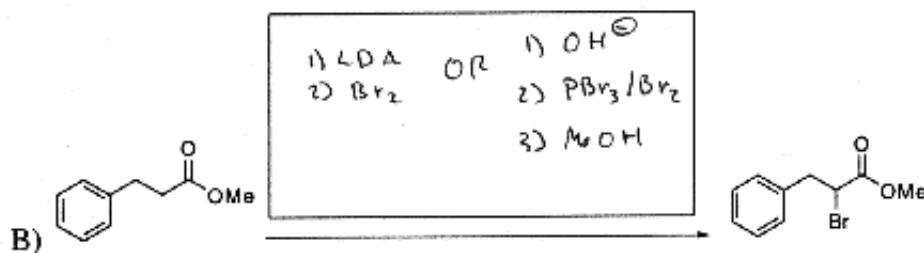
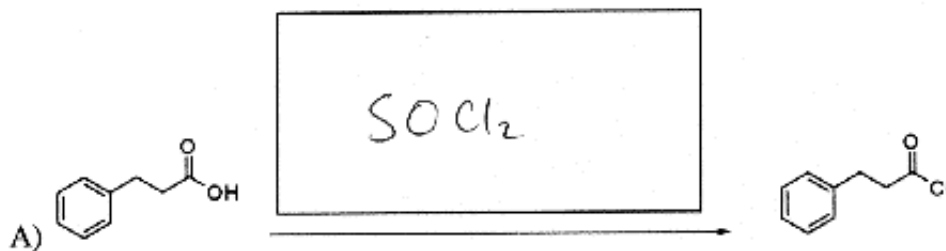




NOT equal anti

Name _____

2) Provide the reagents required to complete the following syntheses. You may use organic reagents of 4 carbons or less in your syntheses and any inorganic reagents you need. Please write your answers in the box provided (20 points each page)



Name _____

