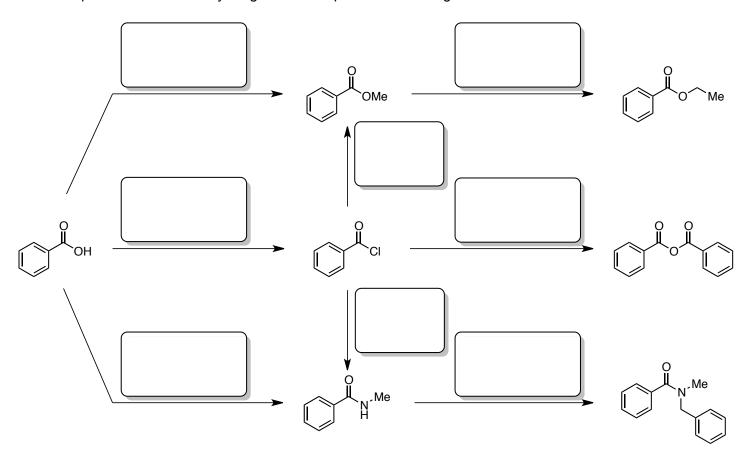
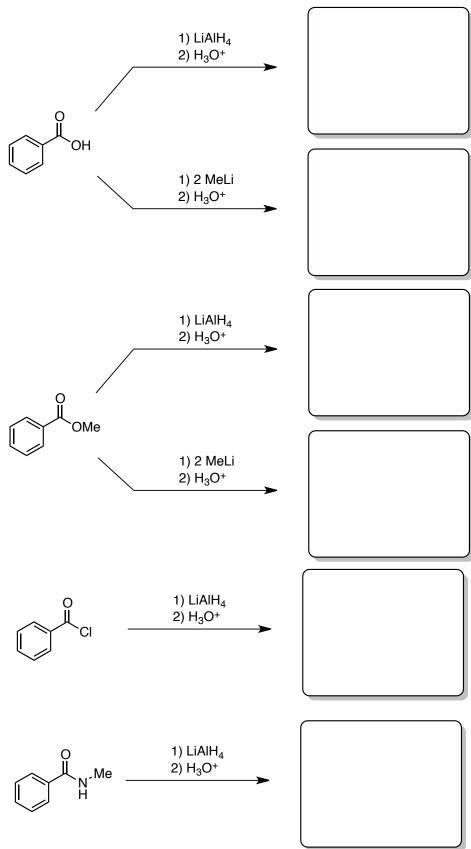
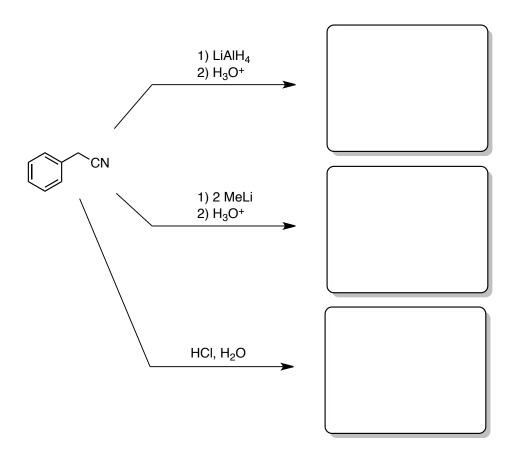
## **Discussion Section 10: Carboxylic Acids and Derivatives**

1. Please provide the necessary reagents to complete the following transformations.



2. Please predict the product of the following reactions. Note: You should be able to draw arrow-pushing mechanisms for each of these!





3. Please suggest a synthesis of	ester 2 starting	from 3-hexene (	( <b>1</b> ) and any	other reagents	you need	that
contain two (2) or fewer carbons.						



4.	(a)	Please	suggest	a synthesis	of ami	de 4	starting	from	aldehyde	3	and	any	other	reagents	you	need	that
C	ontai	n two (	<ol><li>or fewer</li></ol>	er carbons.													

(b) Now draw a reasonable arrow-pushing mechanism for each step of your proposed synthesis.

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(C)	Bonus	Track:	How	about a	a s	vnthesis	O†	aldehyde	: 3	trom	benzene?

