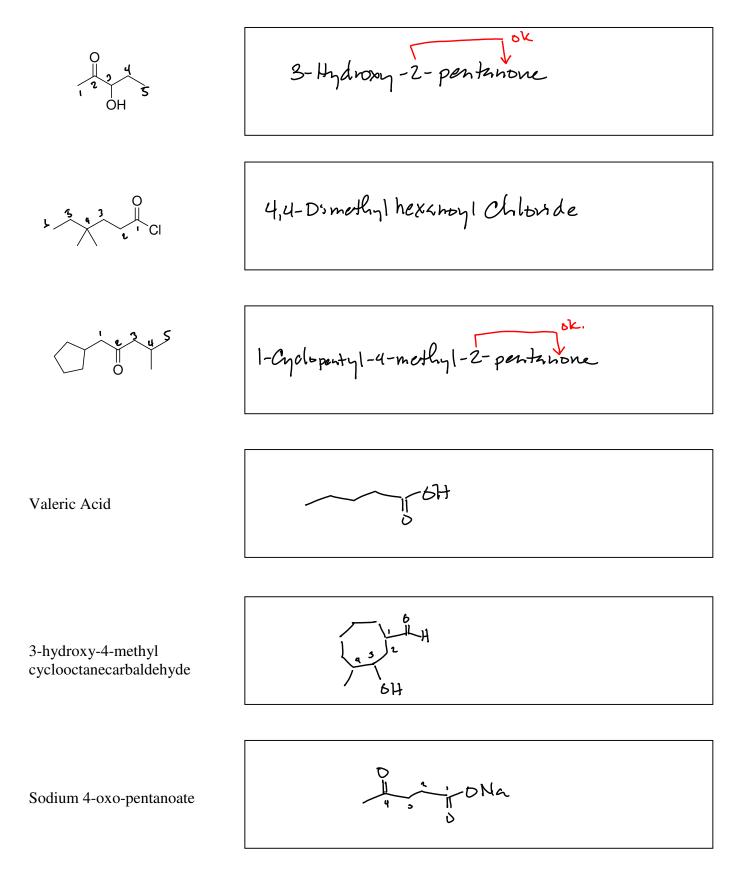
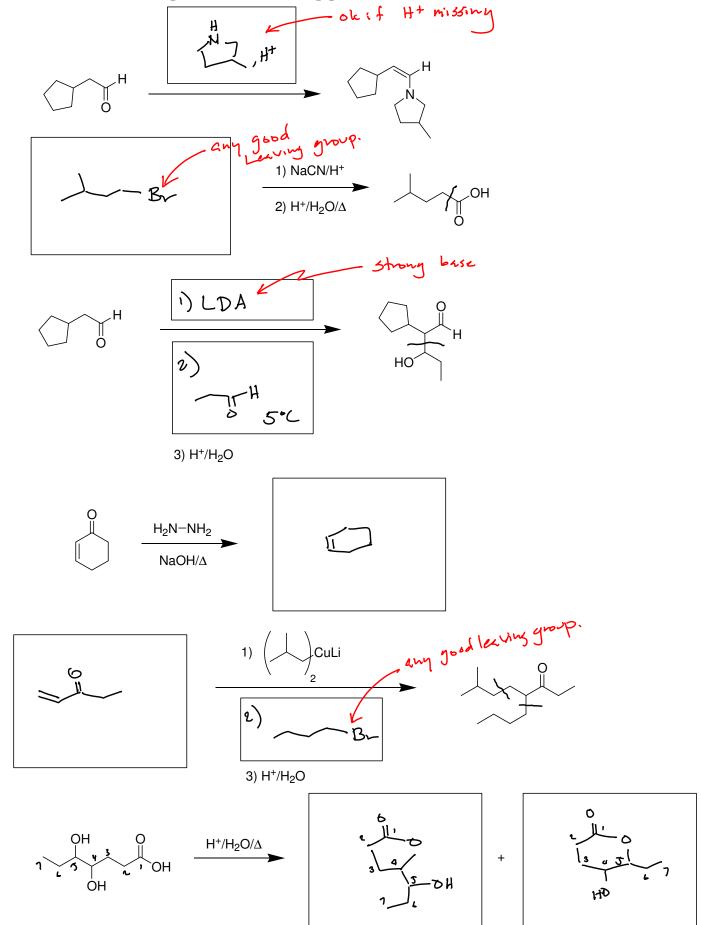
Name:	SIE	):
Signature:		PRINT YOUR NAME CLEARLY!!
Chem 3B Su10 Neil O.L. Viernes	Midterm 1	12JUL10
This exam has 11 pages; <b>make sure</b> written on it will NOT be graded.	e you have them all. Page 11 is bla	ank. Use as scratch paper, anything
Please place answers in designated s graded.	spaces. Please write clearly. Mes	sy or ambiguous answers <u>will not be</u>
This exam is 90 minutes long. No c	elarifying questions will be answere	ed by the GSI's after the exam begins.
Mark one of the following. If you	are enrolled in Chem 3BL, mark	c off your laboratory section.
Lecture Only	Completing I Grade	Ň
101 – Michael Chiang	(Professor Name	)
102 – Amy McCarthy		
103 – Rob Padilla		
107 – Rob Padilla (Evening)		
108 – Kevin Zhao		
109 – Katherine He		Do not write in this box
201 – David Nagle		1)(12)
202 – Greg Dallinger		2)(27)
203 – Reyu Sakakibara		3) (18)
204 – Susan Kim		4) (18)
207 – Arash Nayeri		5) (15)
208 – Philip Chung		6) (18)
		7) (17)
		8) (20)
		9)(14)
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### 1) (12 pts) Provide nomenclature or structures for the following:



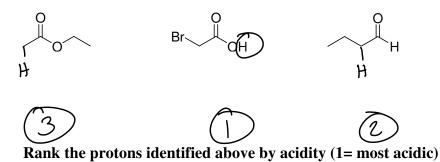
### 2) (27 pts)

Fill in the boxes. One compound or reaction step per box.

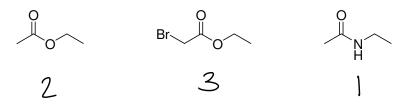


### 3) (18 pts)

Identify the most acidic proton on each of the following molecules.

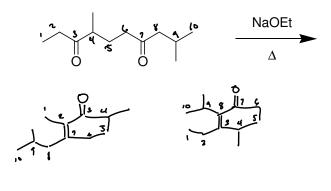


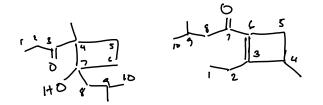
Rank the following molecules by basicity (1= most basic)



Provide an explanation for your reasoning.

4) (18 pts)Provide the structures of the two compounds that can be formed by the following reaction.

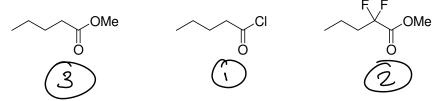




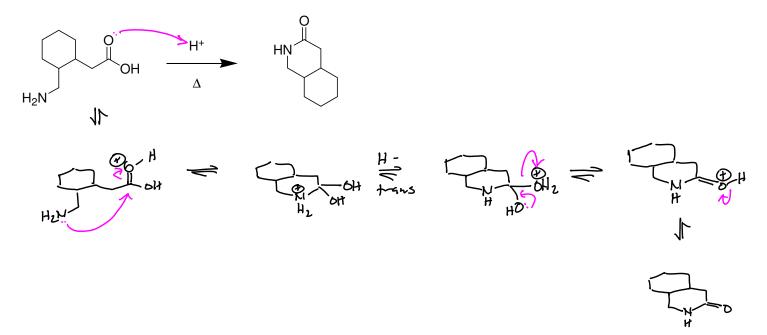
Provide the structures of the starting materials to synthesize the dicarbonyl above.



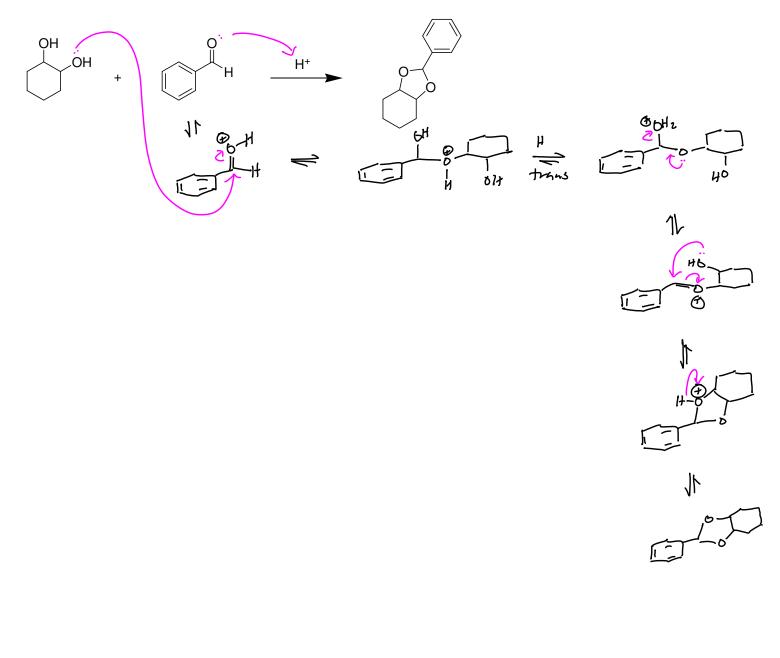
Rank the following molecules by decreasing reactivity toward addition-elimination mechanisms. (1= most reactive)



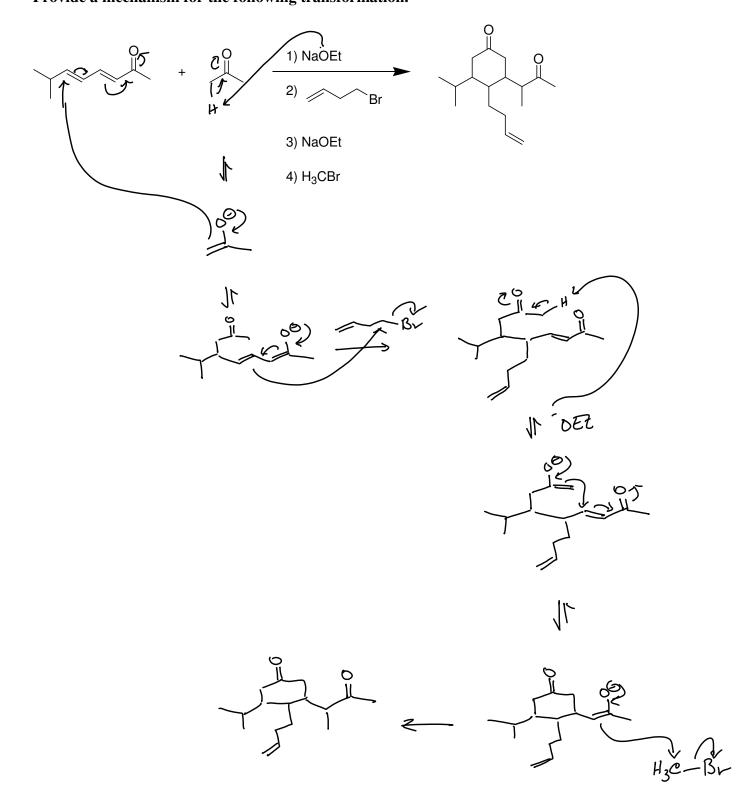
# 5) (15 pts) Provide a mechanism for the following transformation.



# 6) (18 pts) Provide a mechanism for the following transformation.

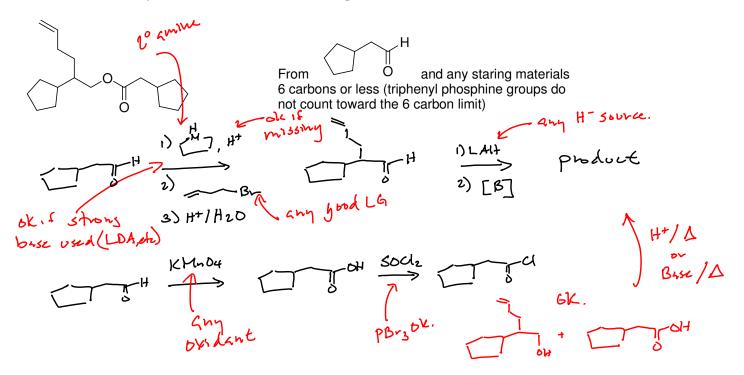


### 7) (18 pts) Provide a mechanism for the following transformation.



### 8) (20 pts)

Provide the best synthetic route to the following molecule.



### 9) (14 pts) Provide the best synthetic route to the following molecule.

