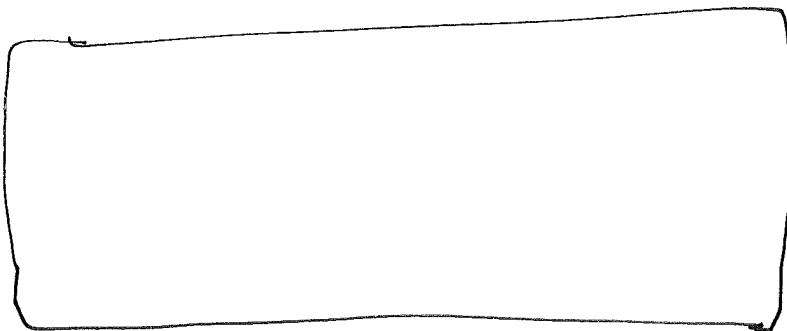
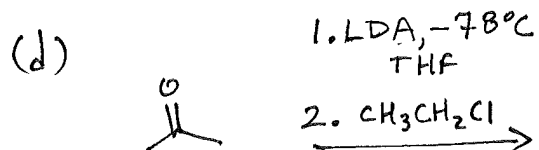
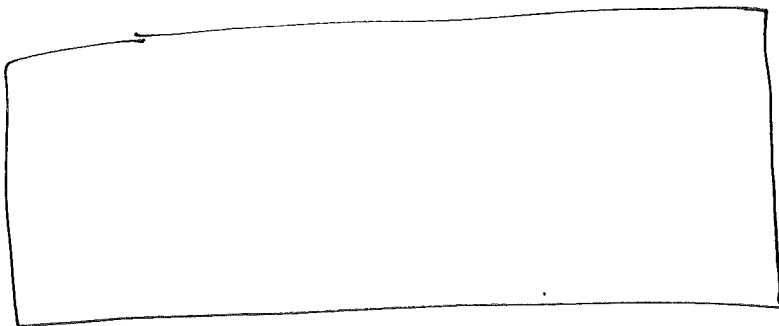
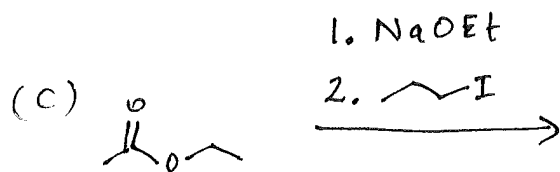
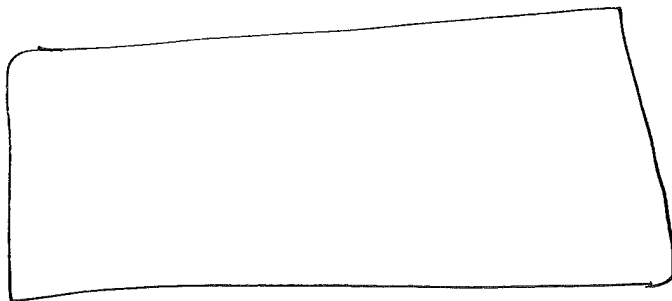
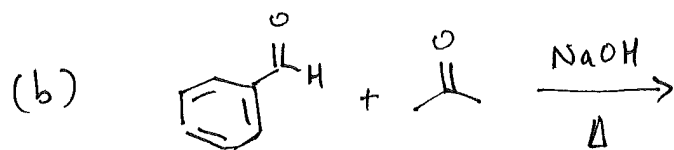
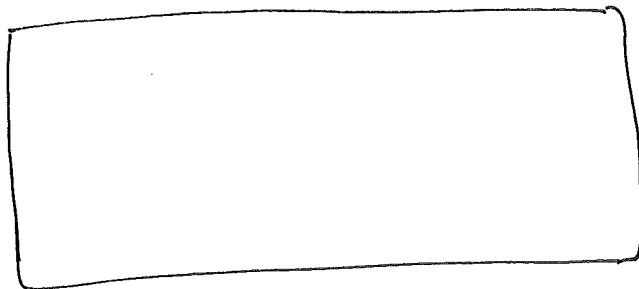
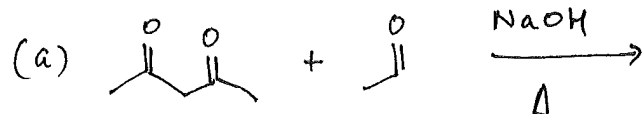


Name: _____ SB#: _____

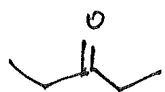
*** This is to be done individually; see page 8 for details. ***

1	10	19
2		
3	11	20
	12	
4		21
5	13	22
6	14	23
7		
	15	24
8	16	
		25
9	17	
	18	YOUR ANSWERS FROM THE FINAL 3 PAGES ARE TO BE COPIED HERE!

1. Please fill in the missing product(s).

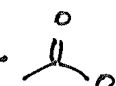


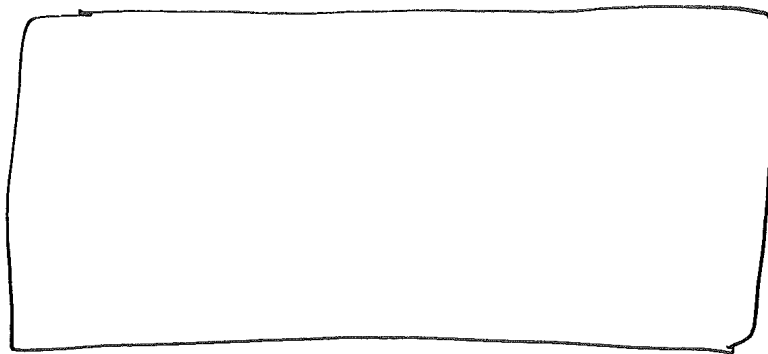
1. (e)



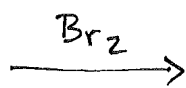
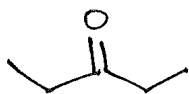
1. LDA, -78°C



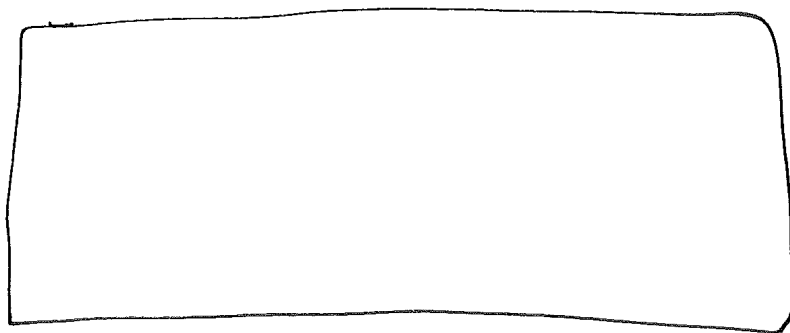
2.  OCH_3



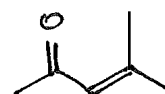
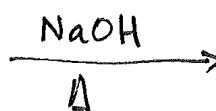
(f)



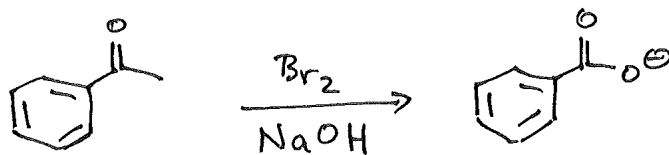
AcOH



2. Write a mechanism for



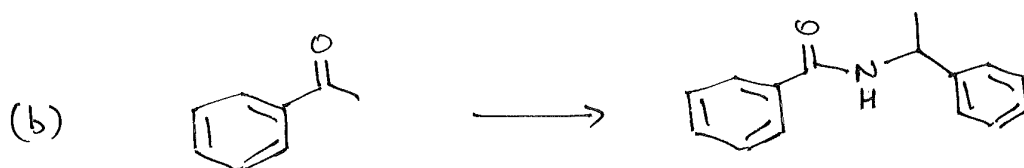
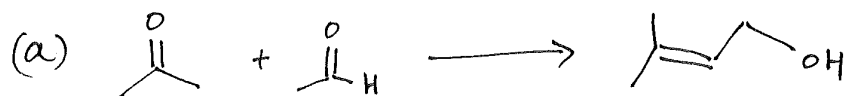
3. Write a mechanism for

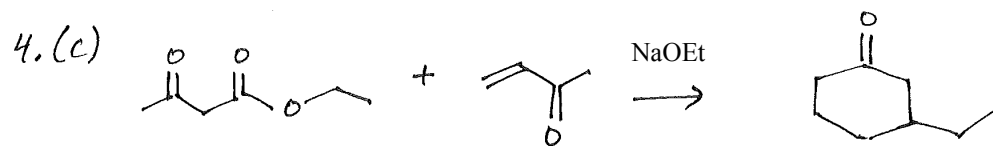


4. Write a series of reactions to accomplish the following reactions.

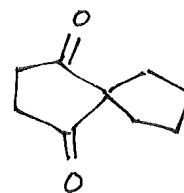
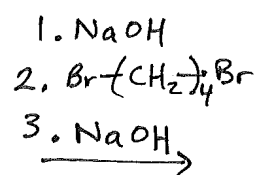
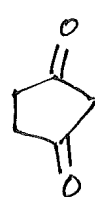
All carbons in the product must come from the starting material.

Draw all products/enantiomers at each step, if applicable, and circle the one used in the next step. These are synthesis problems, not mechanism problems.

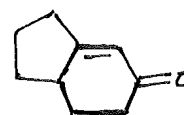
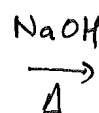
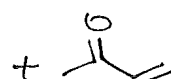
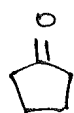




5. Write a mechanism for :



6. Write a mechanism for :



Complete the following schemes, giving either the product or reagent, as indicated. Write answers for your benefit right in the schemes, but **TRANSFER** your answers for grading onto the grid on the first page, matching each answer box with the same number in the schemes.

$$\text{CrO}_3/\text{H}_2\text{SO}_4$$

PCC



