NAME (Print): _____

SIGNATURE: _____

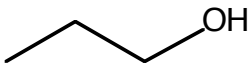
Chemistry 310N
Dr. Brent Iverson
9th Homework
April 9, 2008

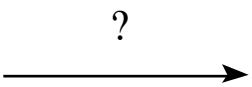
Please print the first three letters of your last name in the three boxes

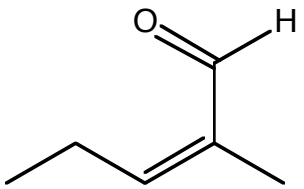
Score: _____

These are enolate synthesis problems. In each case, all of the carbons of the products must come from the listed starting materials. You may use any reagents we have discussed this semester or last semester. Show all molecules synthesized along the way. For each step, you will only get full credit if the product you list is the major product of that transformation. Remember to work backwards, count carbons, and make sure you know your KRE's.

(7 pts)

A) 

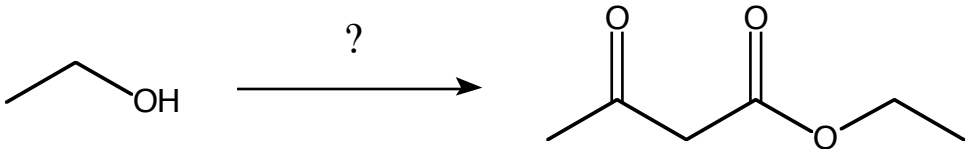




E,Z Mixture

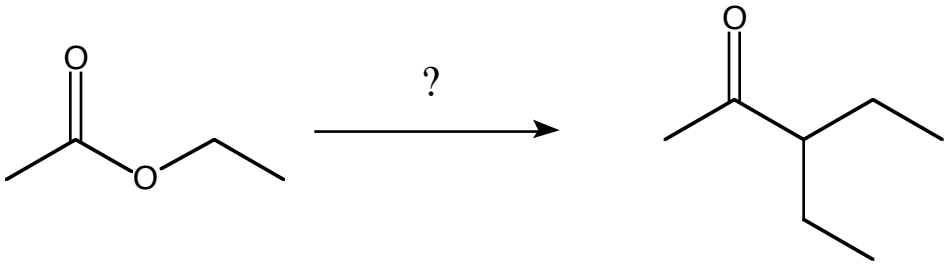
(10 pts)

B)



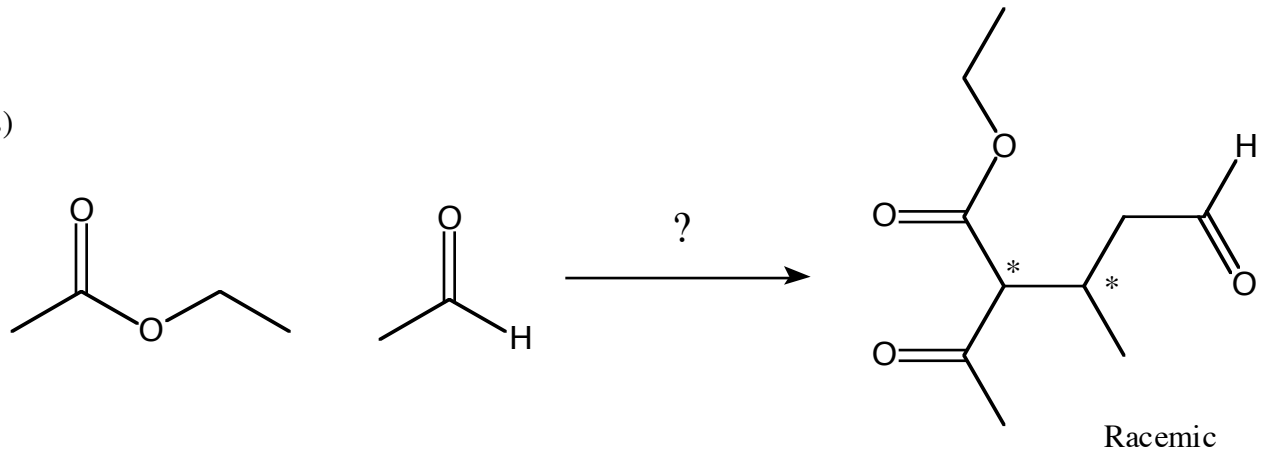
(20 pts)

C)



(7 pts)

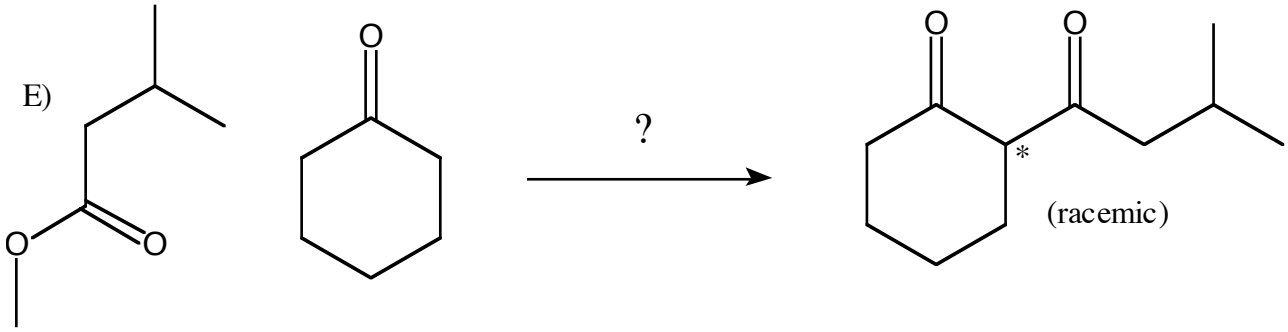
D)



Racemic

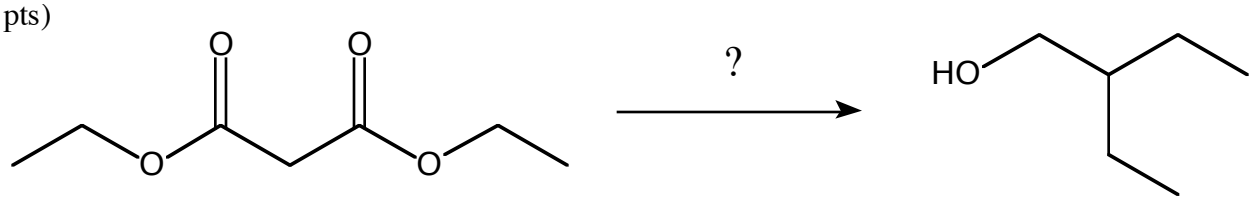
(16 pts)

E)



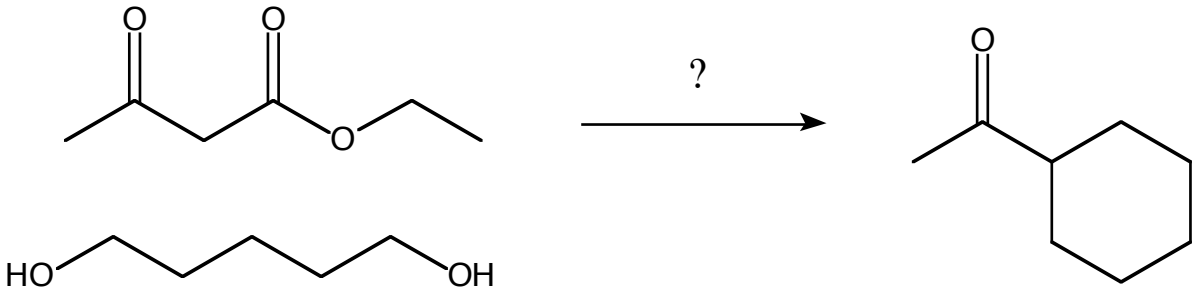
(19 pts)

F)



(13 pts)

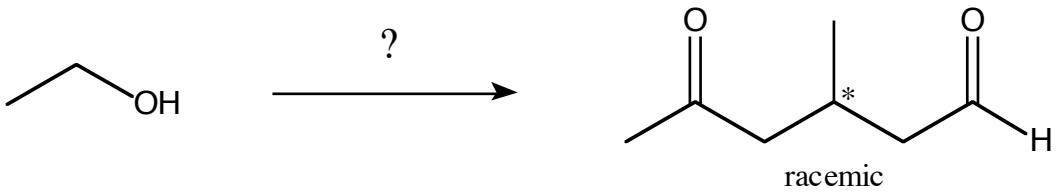
G)



The KRE might be very difficult to spot here. Hint: A substantial portion of this one comes from ones you have done earlier in this homework set.

(22 pts)

H)



racemic