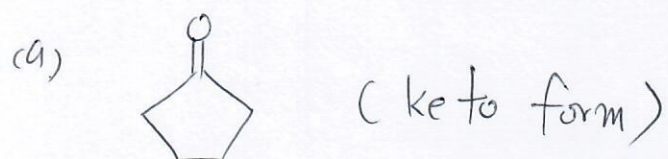
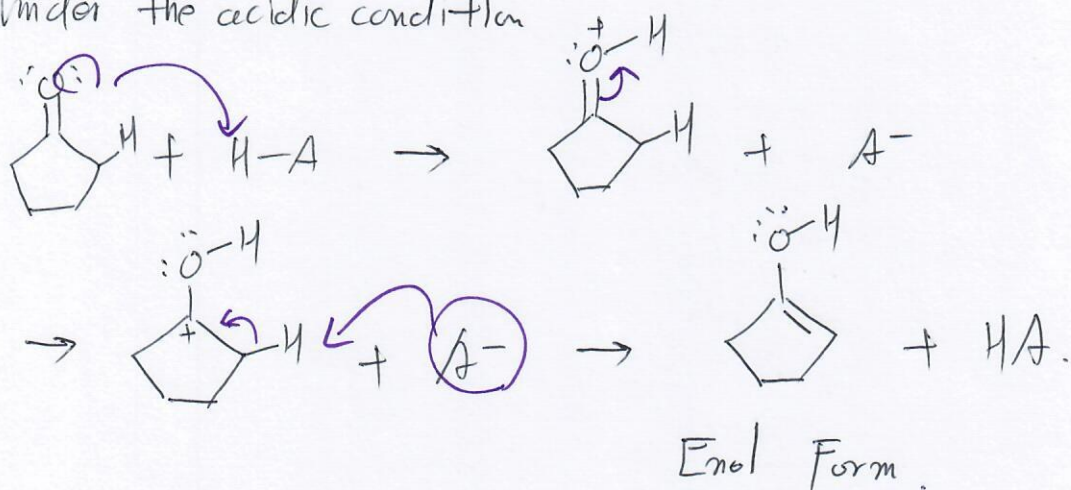


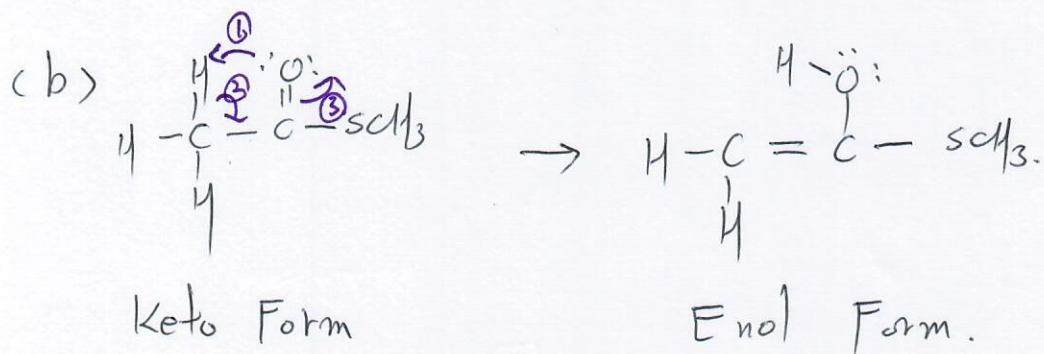
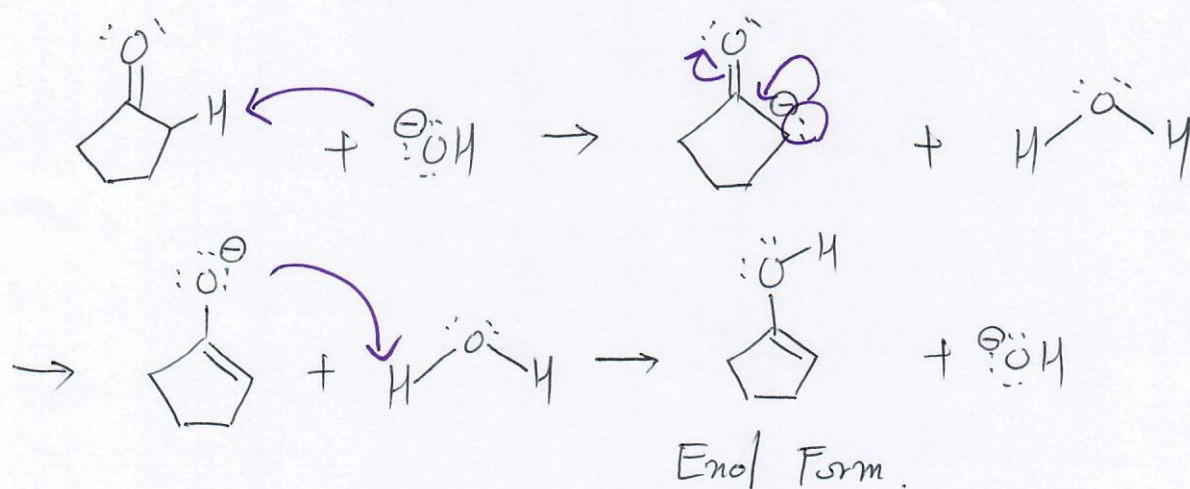
# Problem 22.-1-1



under the acidic condition



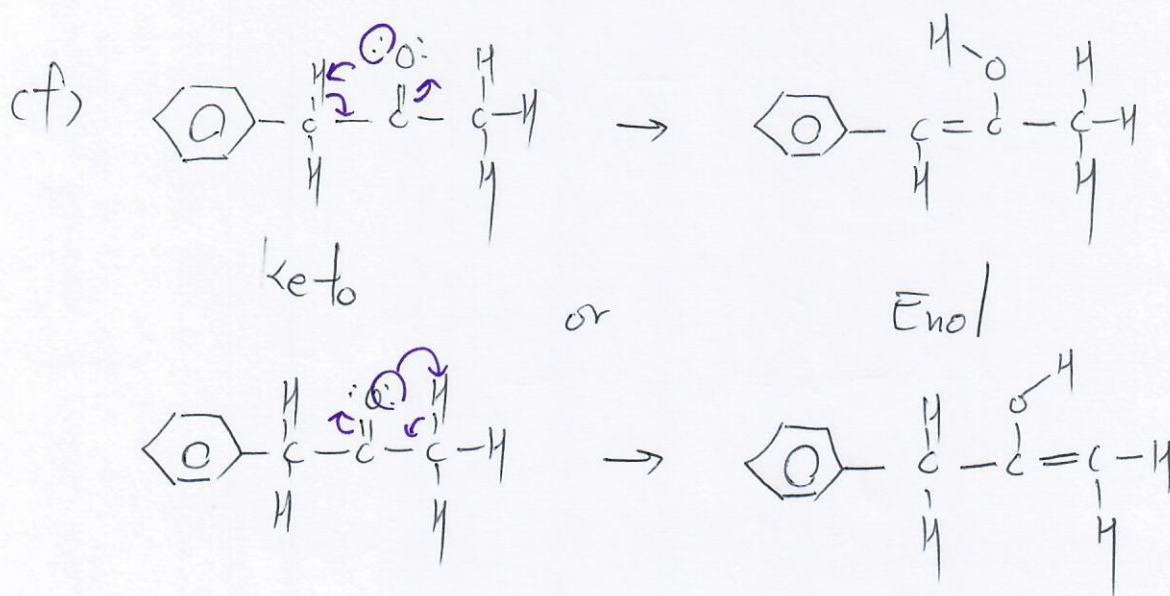
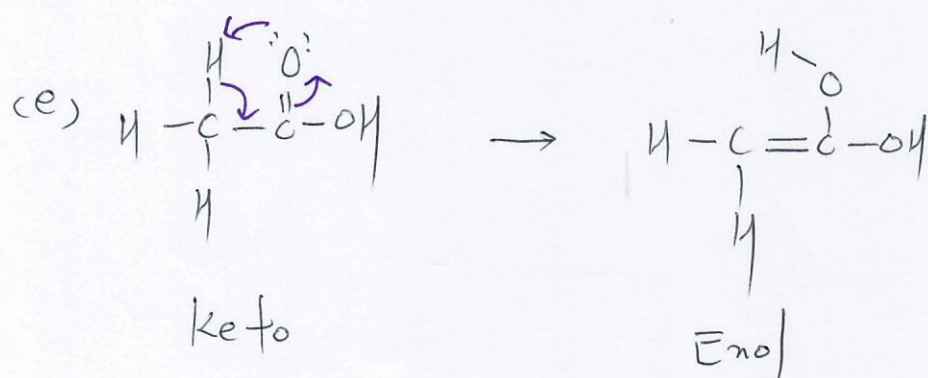
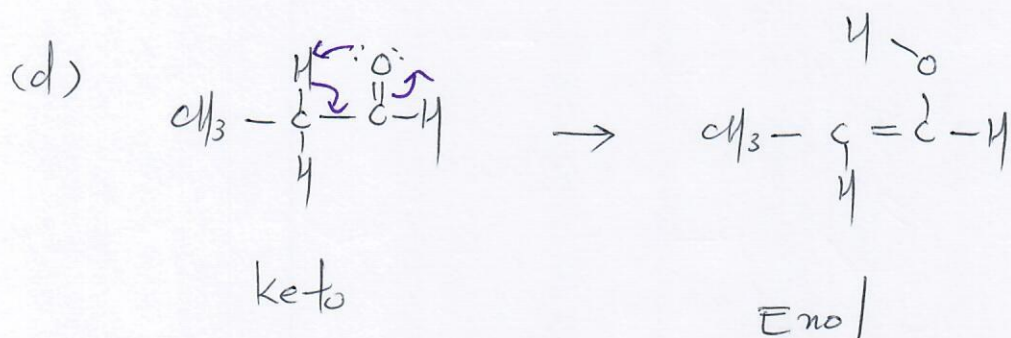
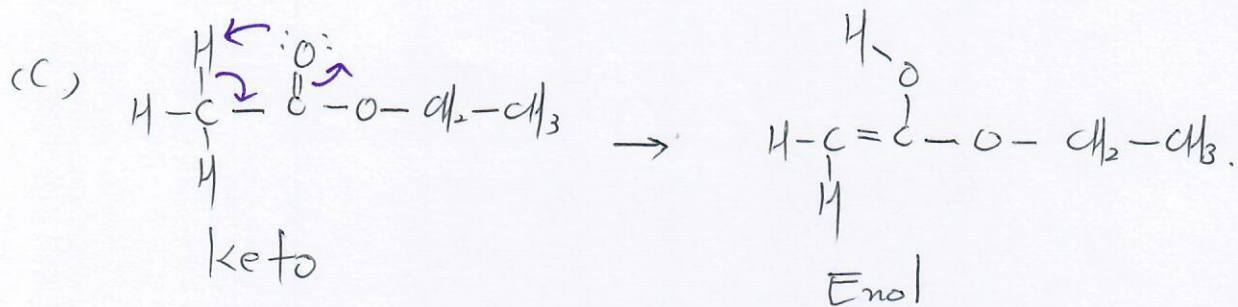
under the Basic ~~condition~~ condition.



Be carefully.

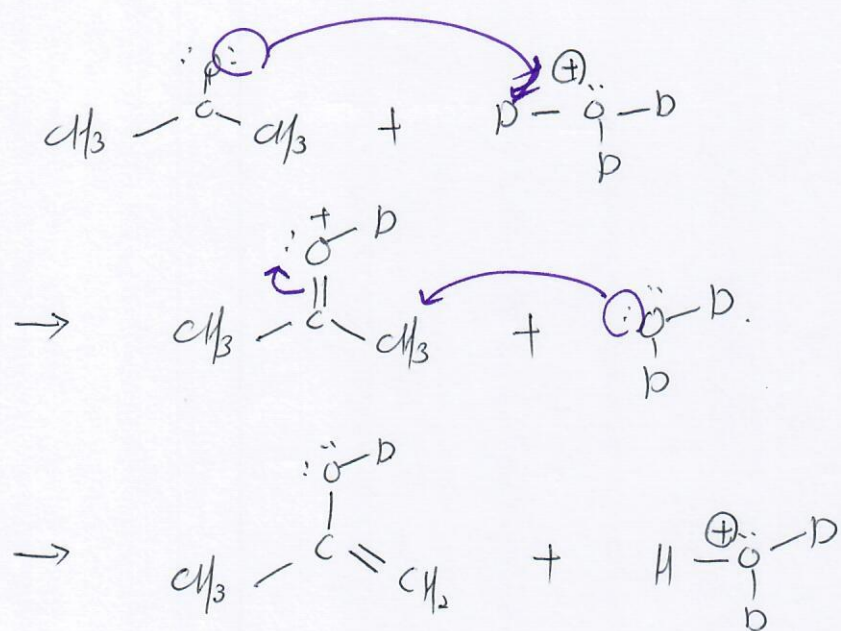
This is simple mechanism. The proton is ~~can~~ come from acid or base.

Problem 22-1-2



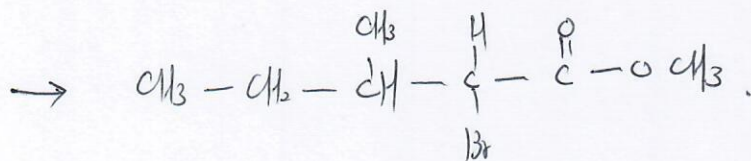
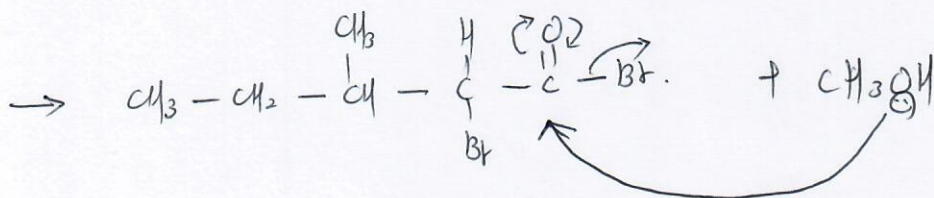
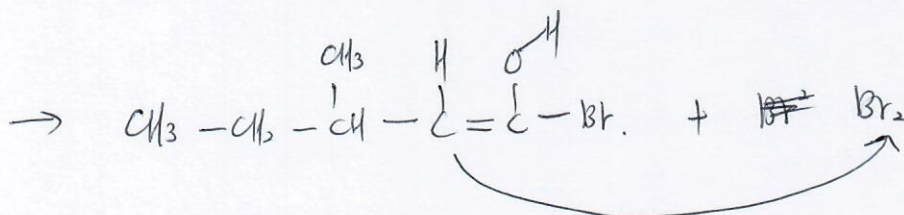
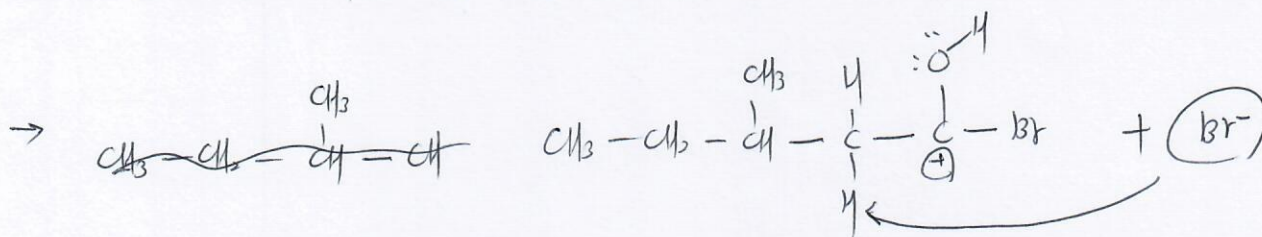
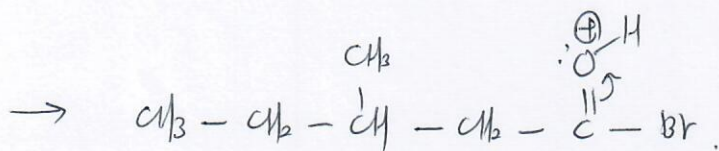
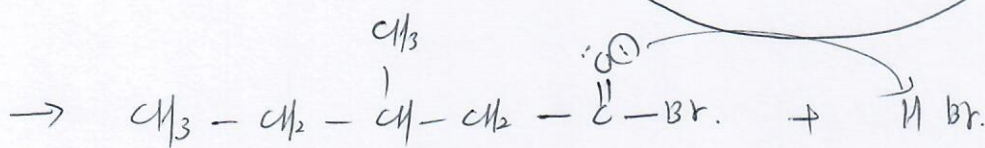
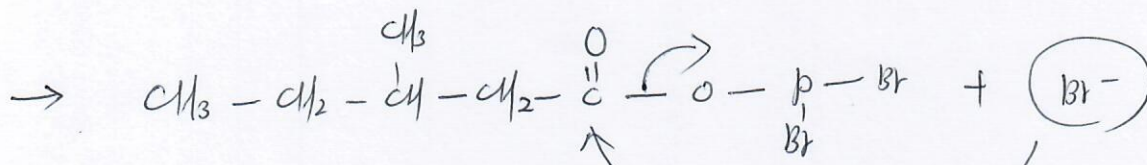
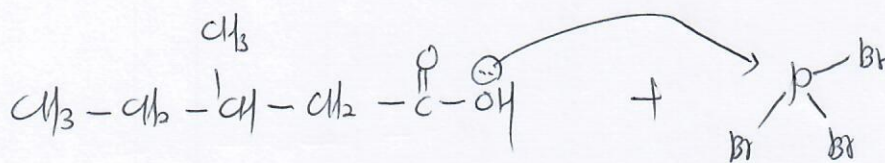


problem ~~25~~ 22-4.



Enol.

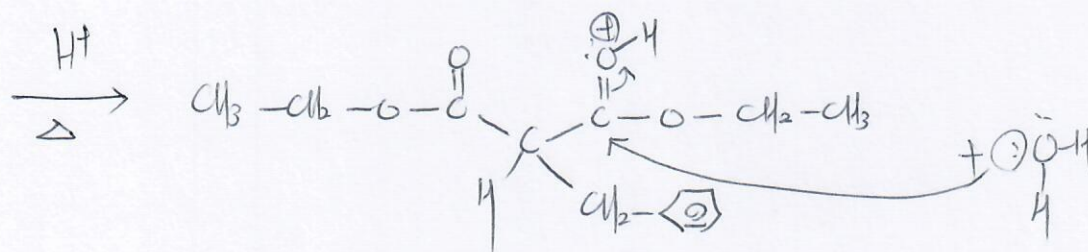
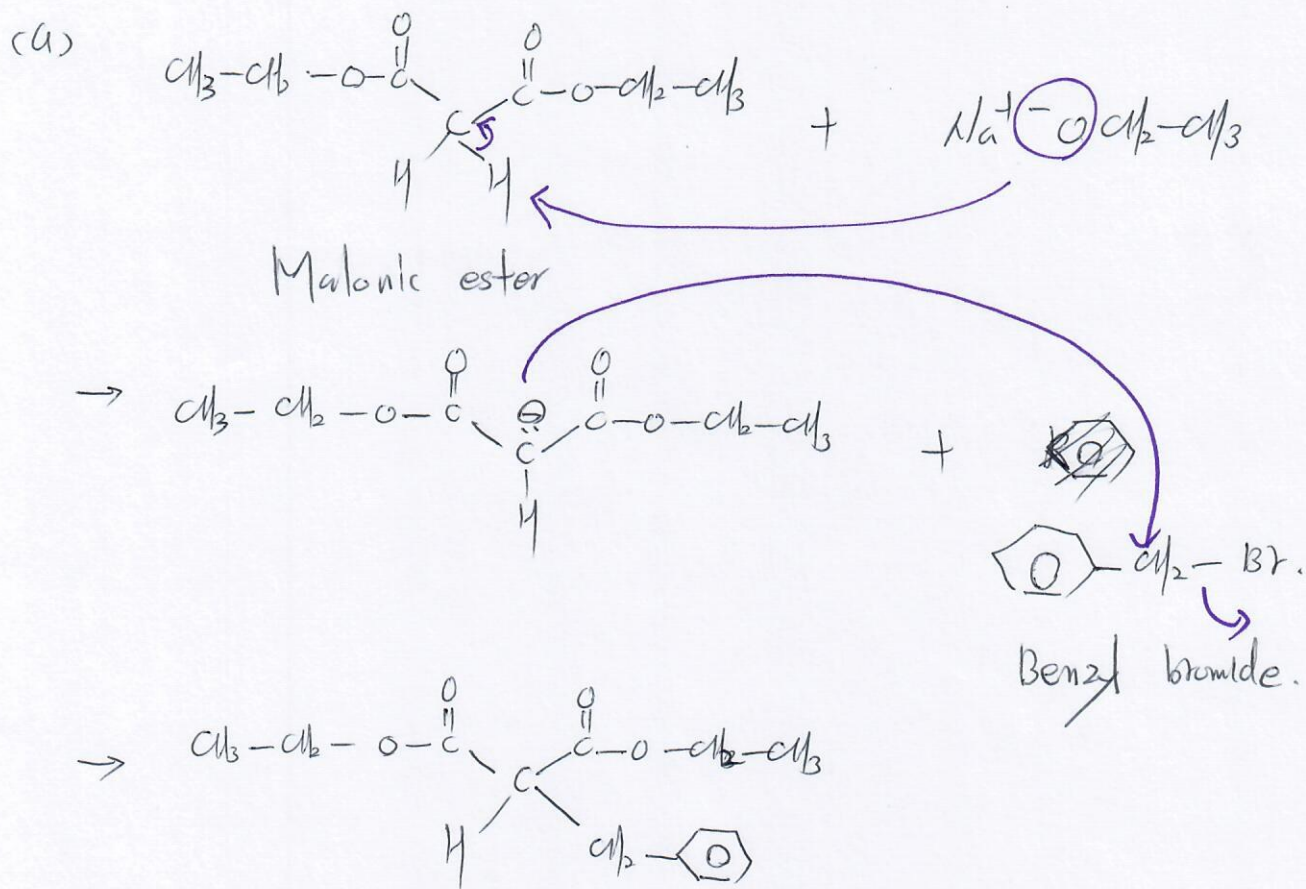
problem 22-6



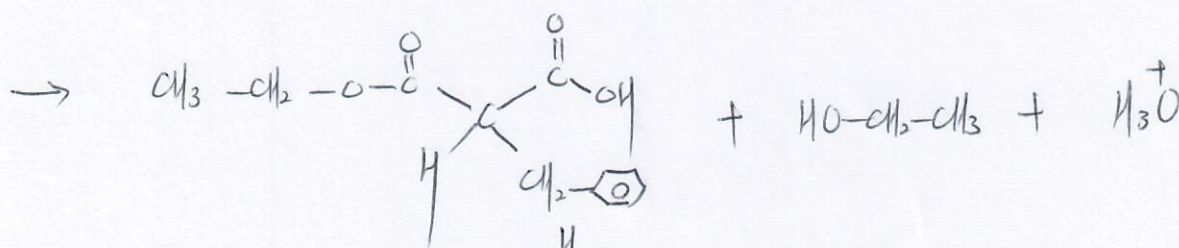
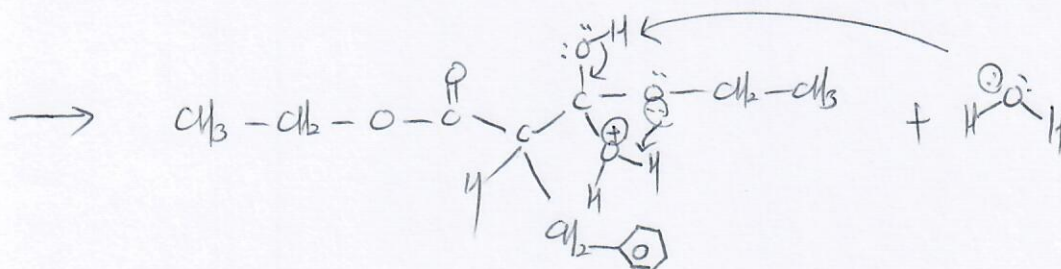
Methyl 2-bromo-3-methylpentanoate.



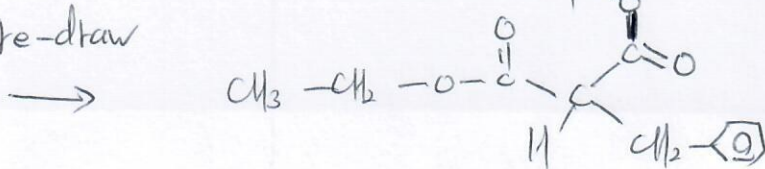
# Problem 22-10-1



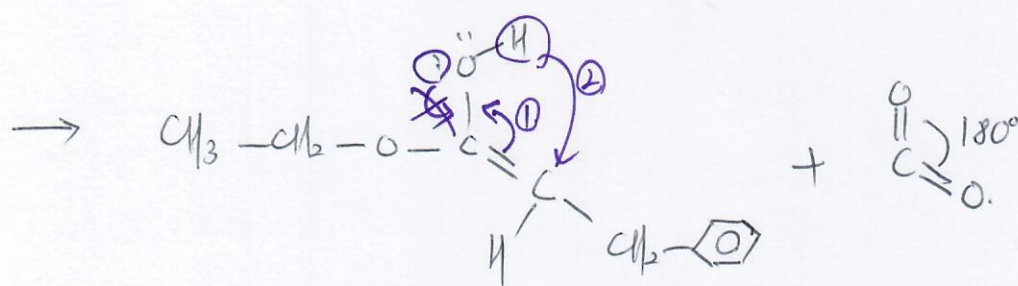
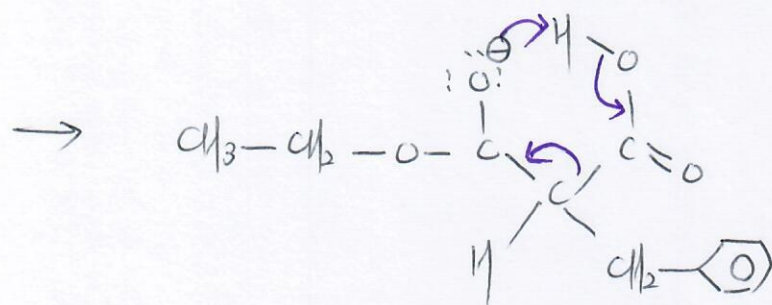
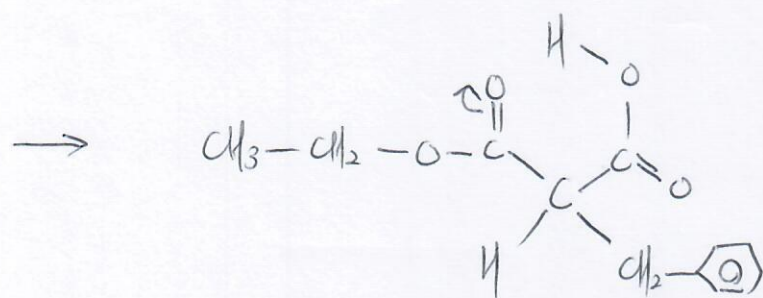
Hydrolysis of Ester under the acid condition



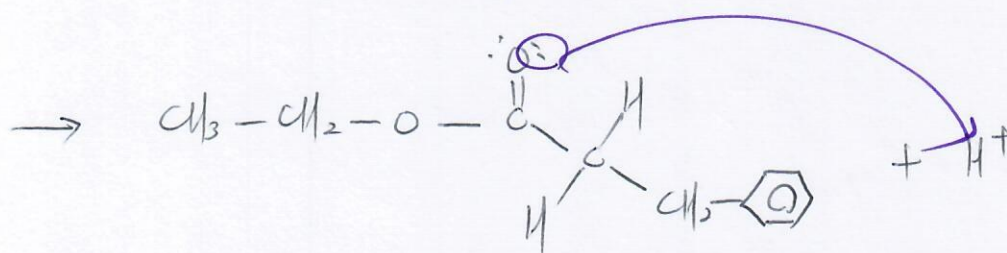
re-draw



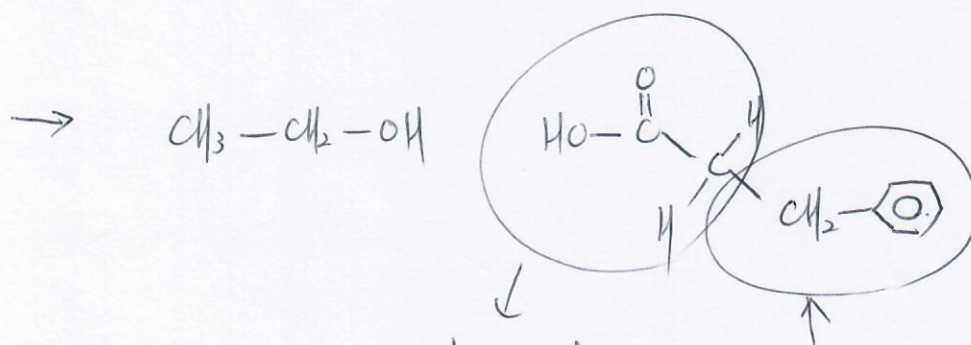
# Problem 22-10-2



Enol Form



(Hydrolysis)



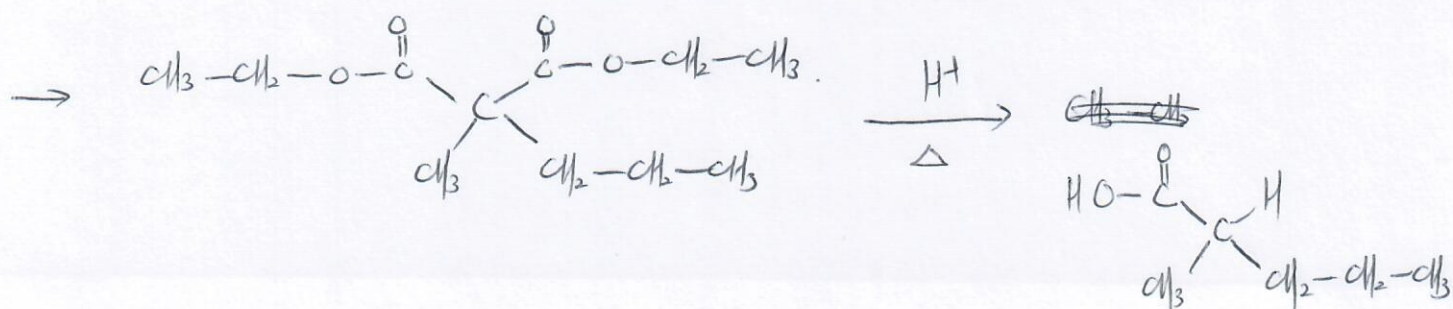
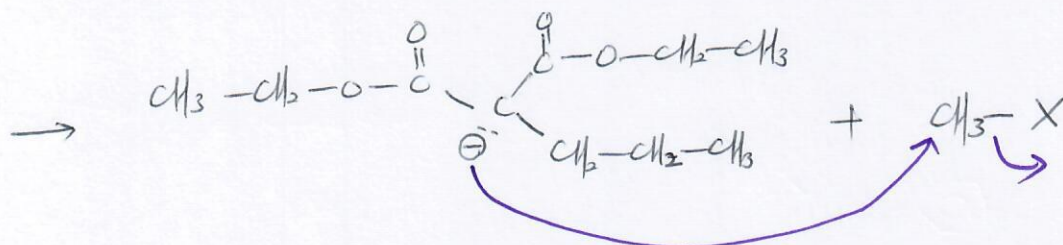
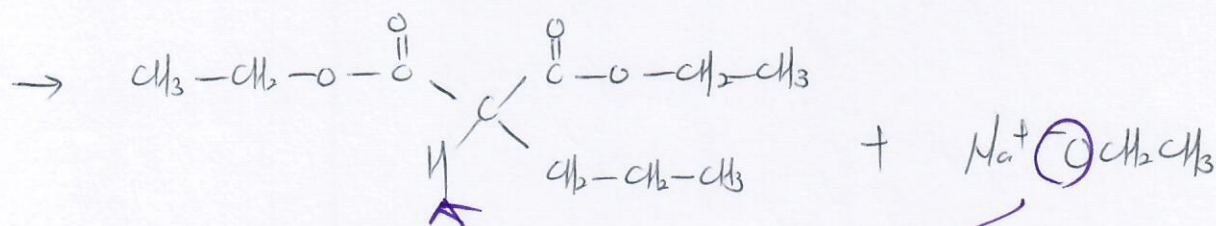
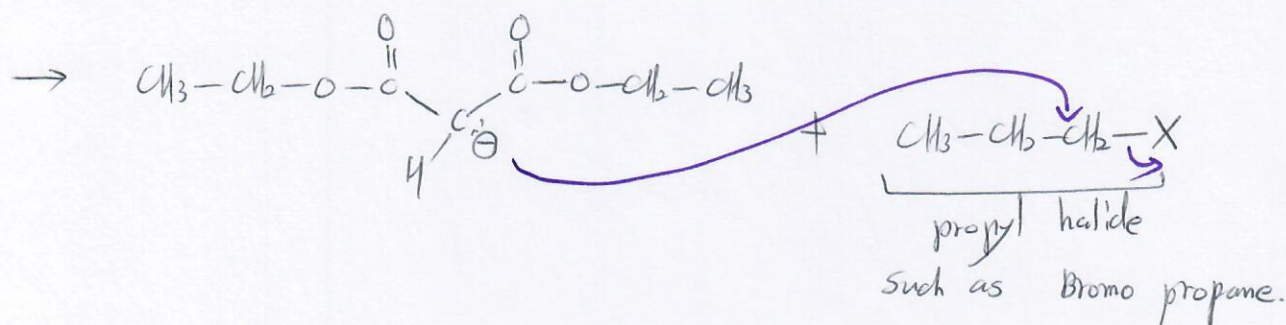
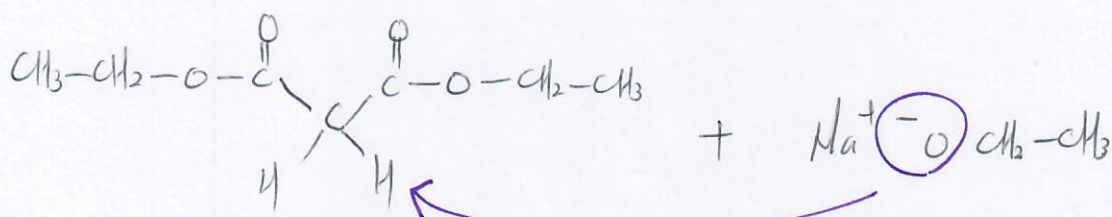
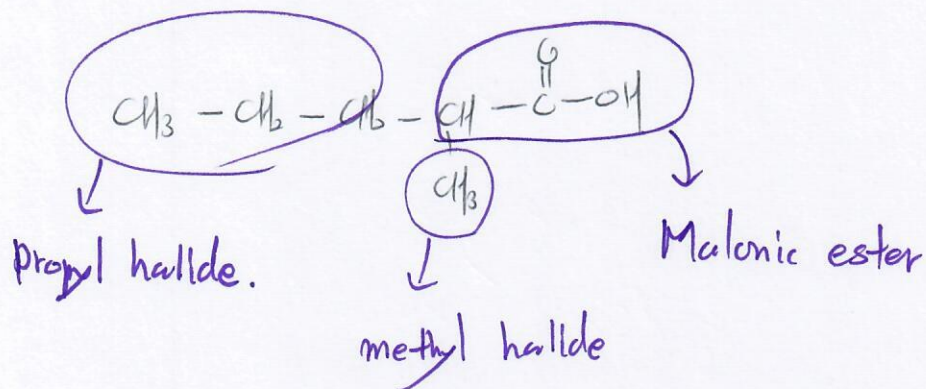
From Malonic ester.

From benzyl bromide

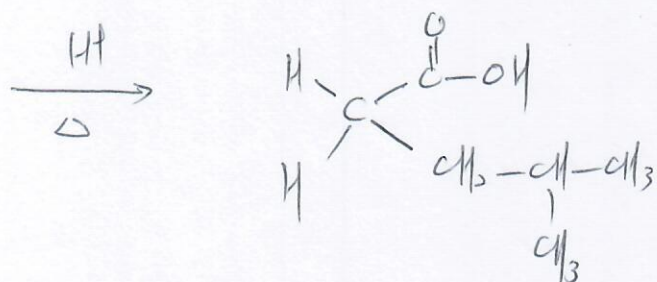
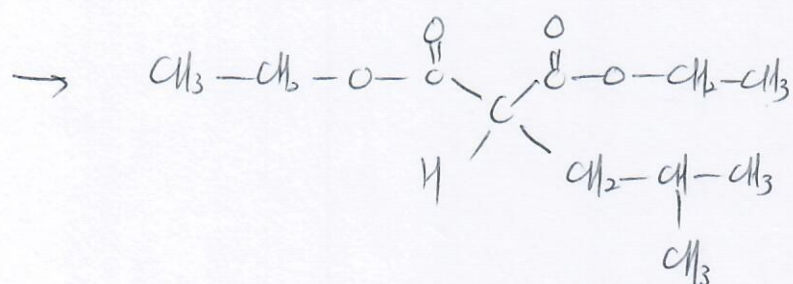
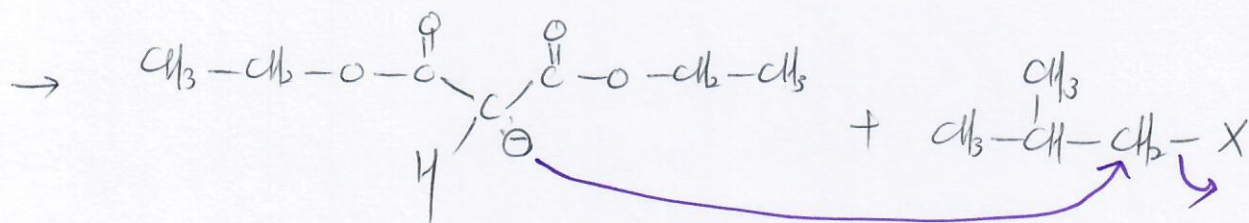
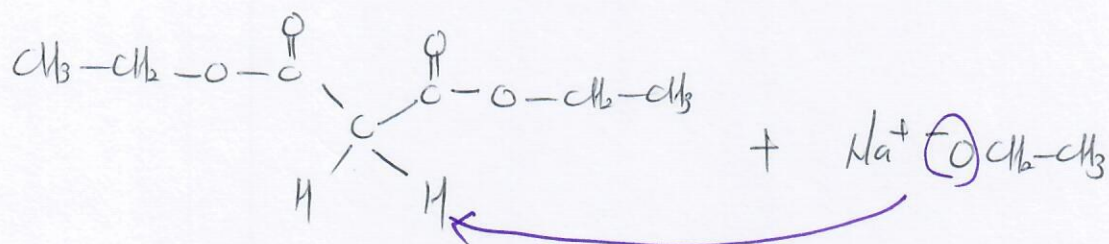
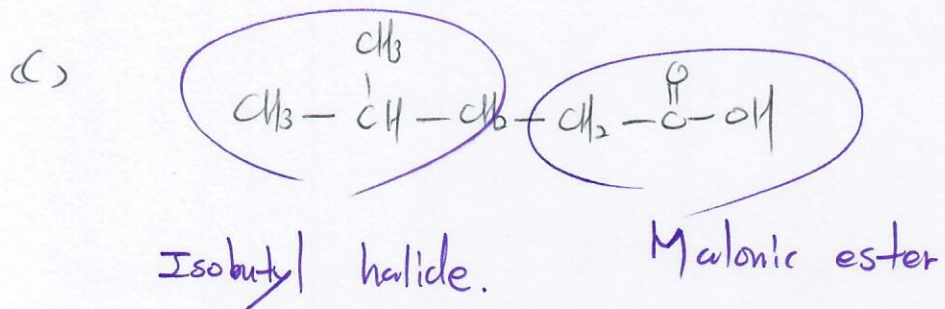


Problem 22-10-3.

(b)



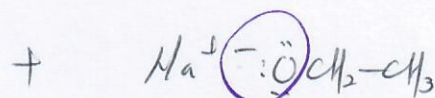
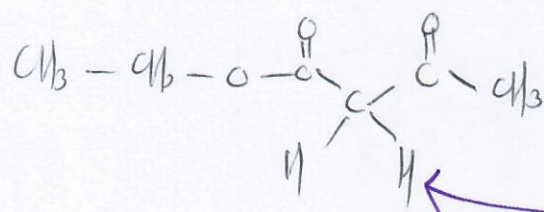
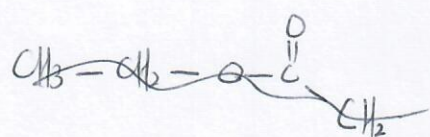
problem 22-10-4.



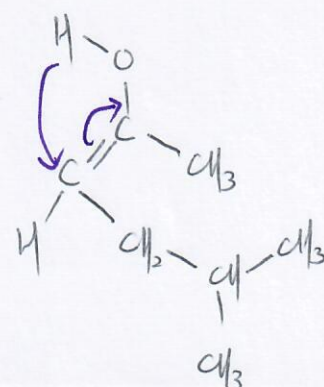
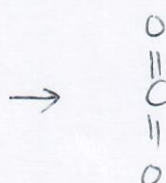
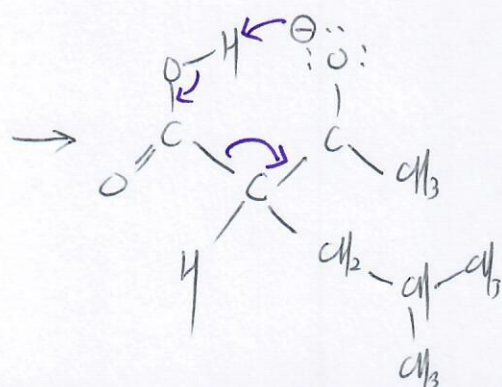
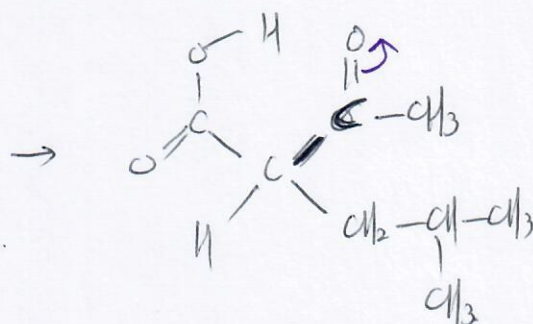
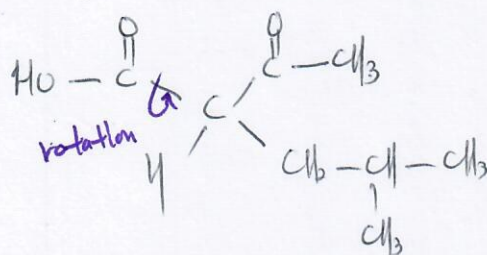
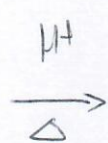
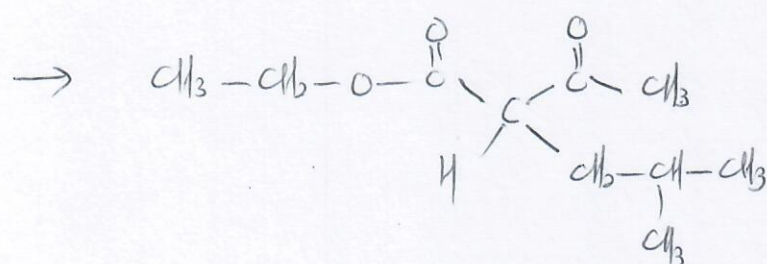
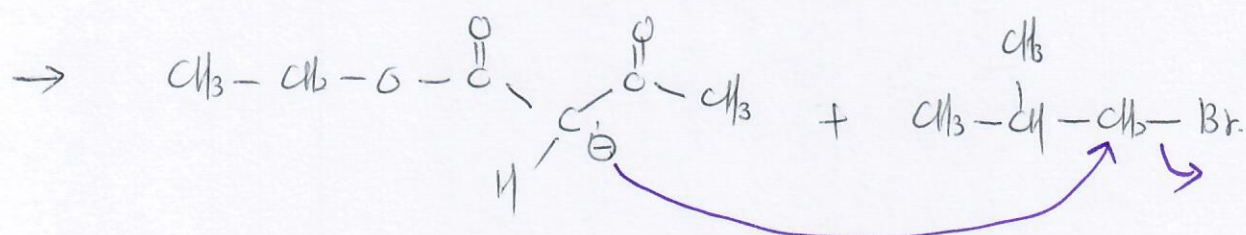


# problem 22-13 -

(a)

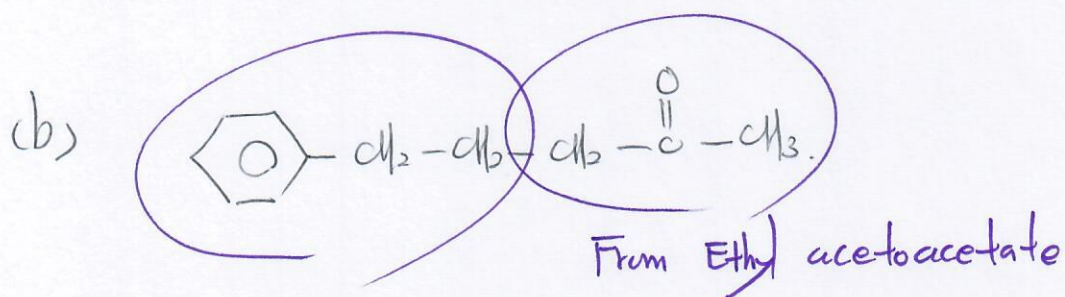
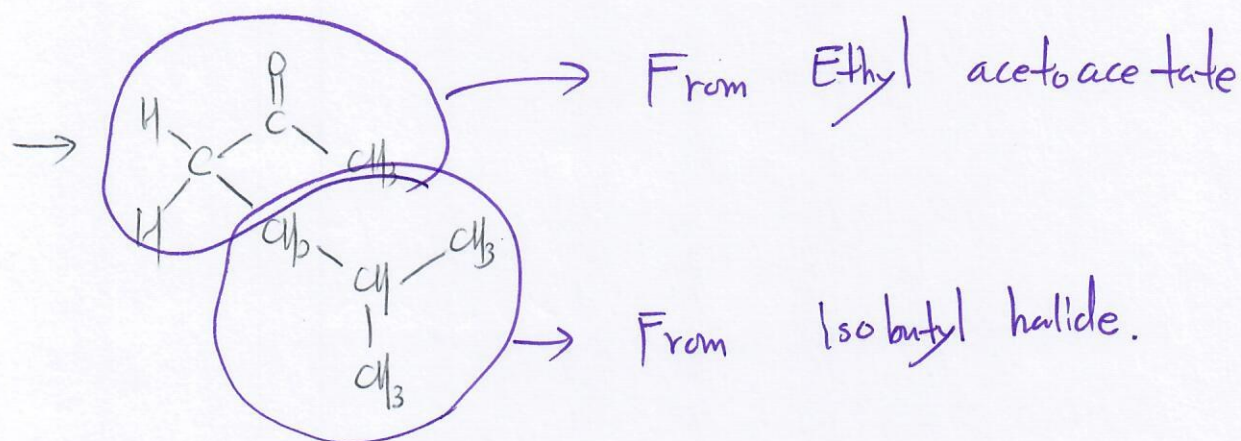


Ethyl acetoacetate  
or  
Acetoacetic ester.

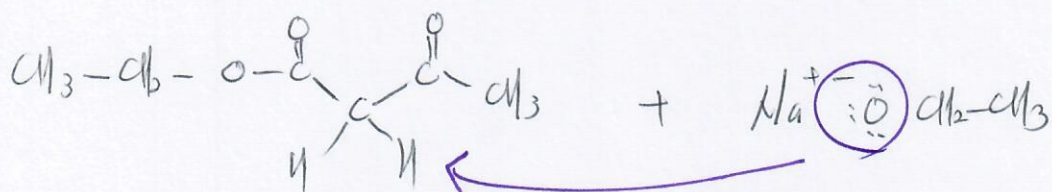


Enol Form

Problem 22-13-2



From ethylbenzene halide



Ethyl acetate

