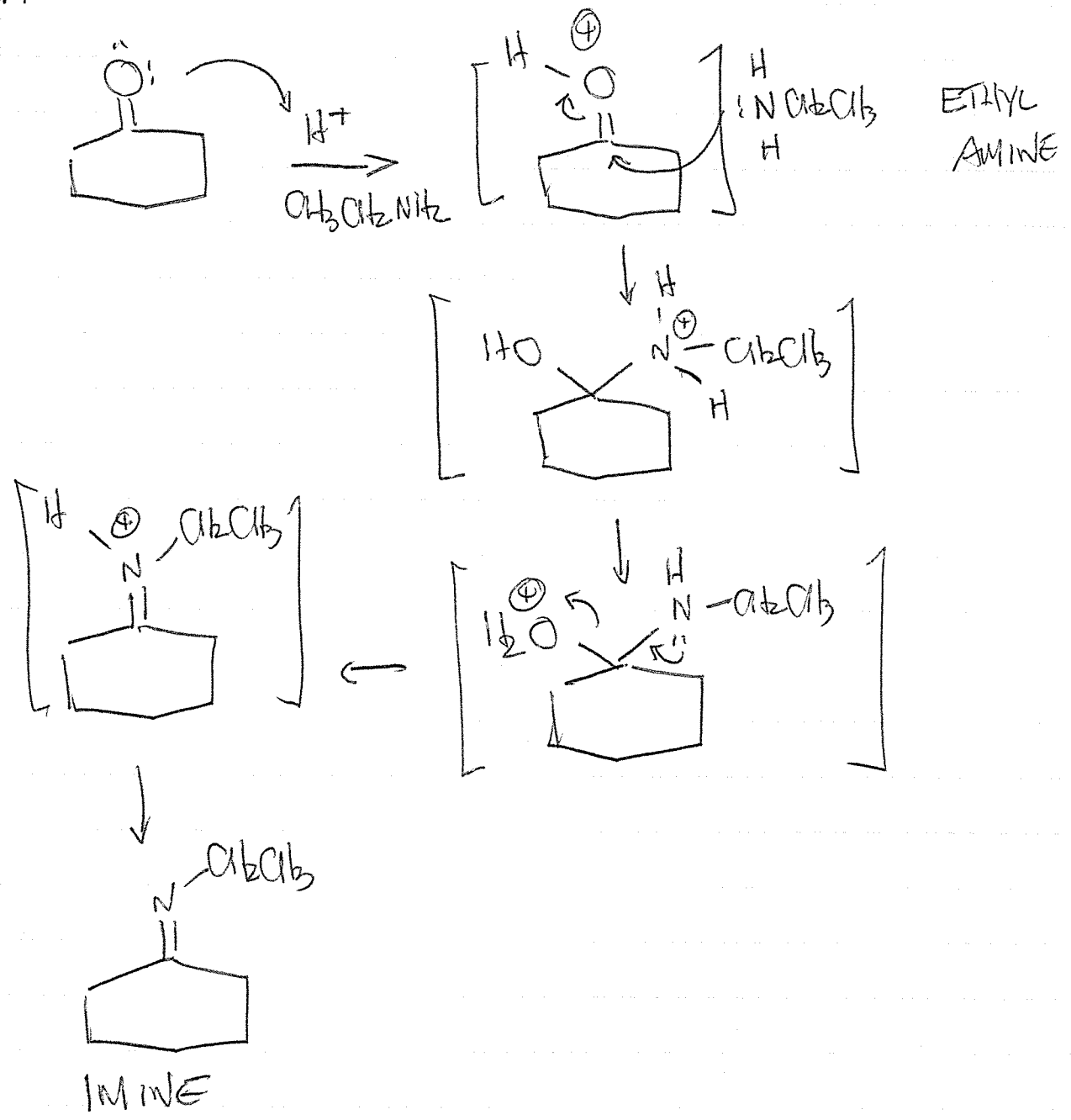
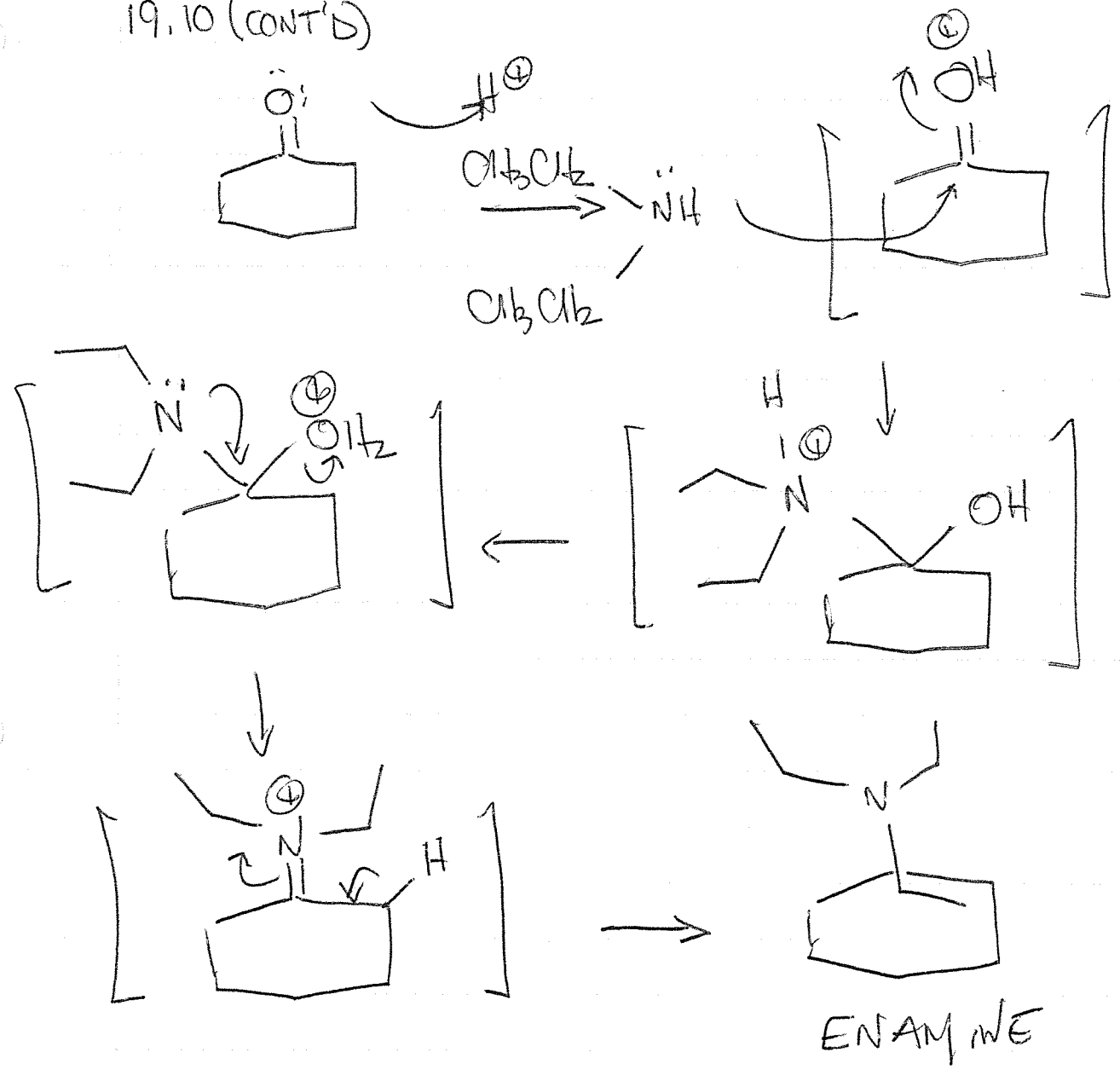


PROBLEM SET #23
SOLUTIONS

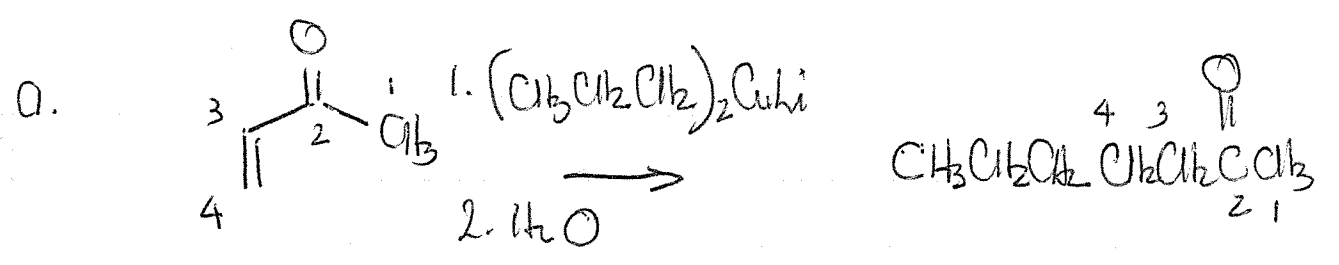
19.10



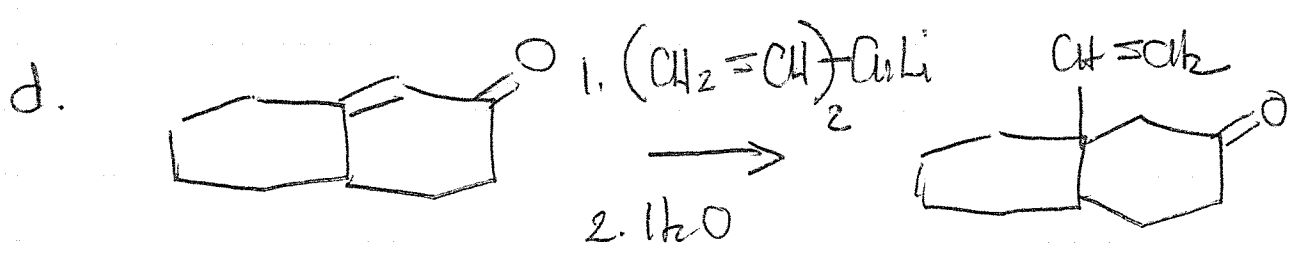
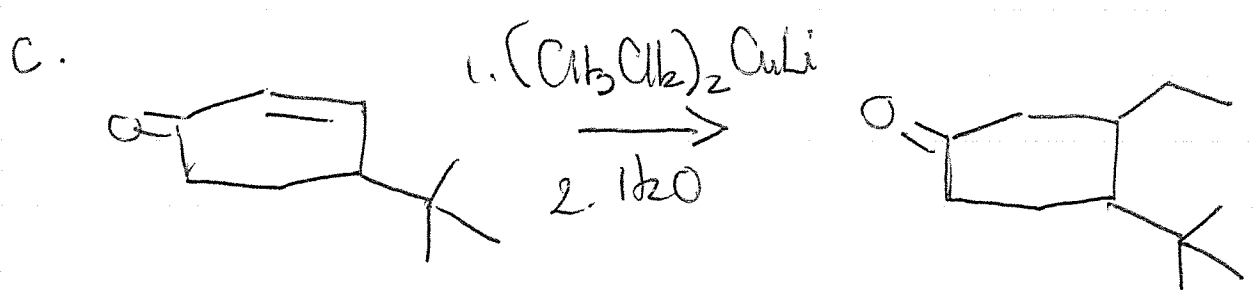
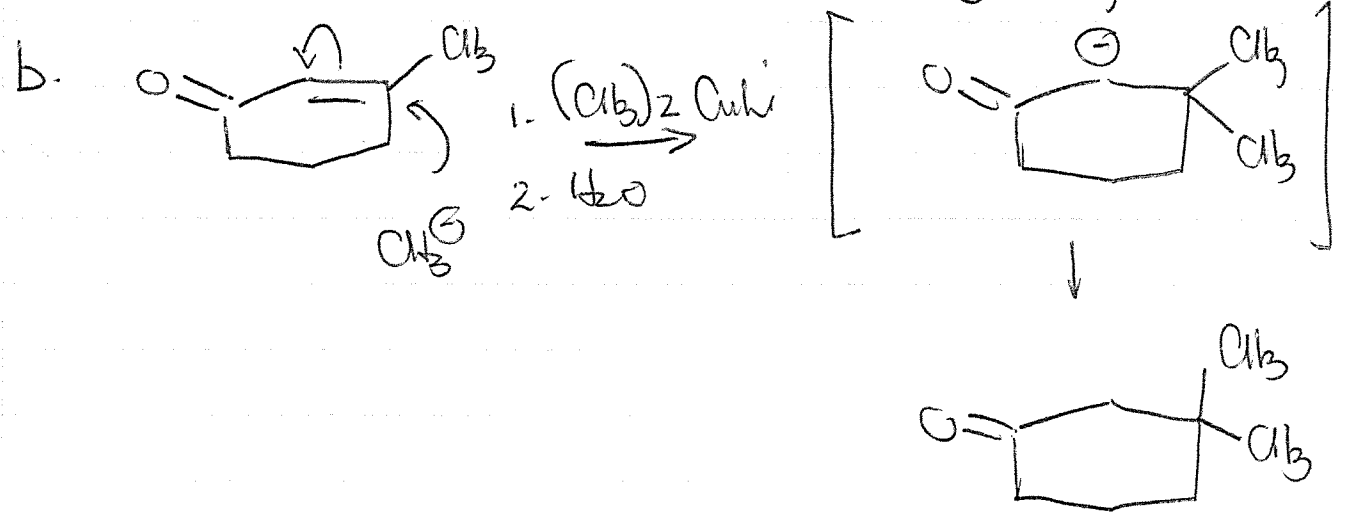
19.10 (CONT'D)



19.22.

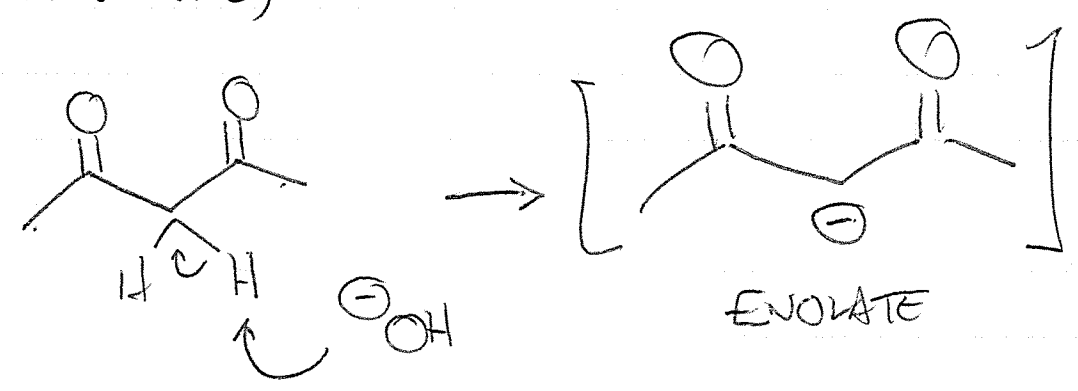


19.22.

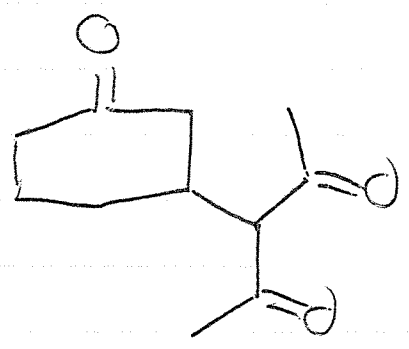
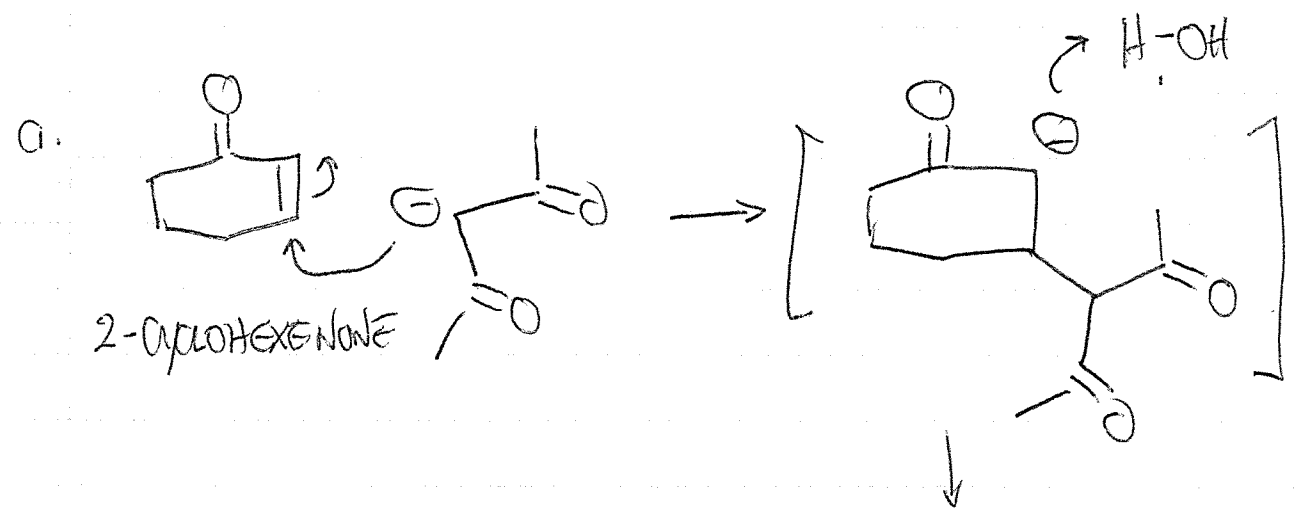


23.16. MICHAEL REACTION IS A 1,4-ADDITION OF AN ENOLATE (OR ENOL) WITH AN α,β -UNSAT'D CARBONYL. IN THIS PROBLEM THE ENOLATE IS DERIVED FROM 2,4-PENTANE DIONE

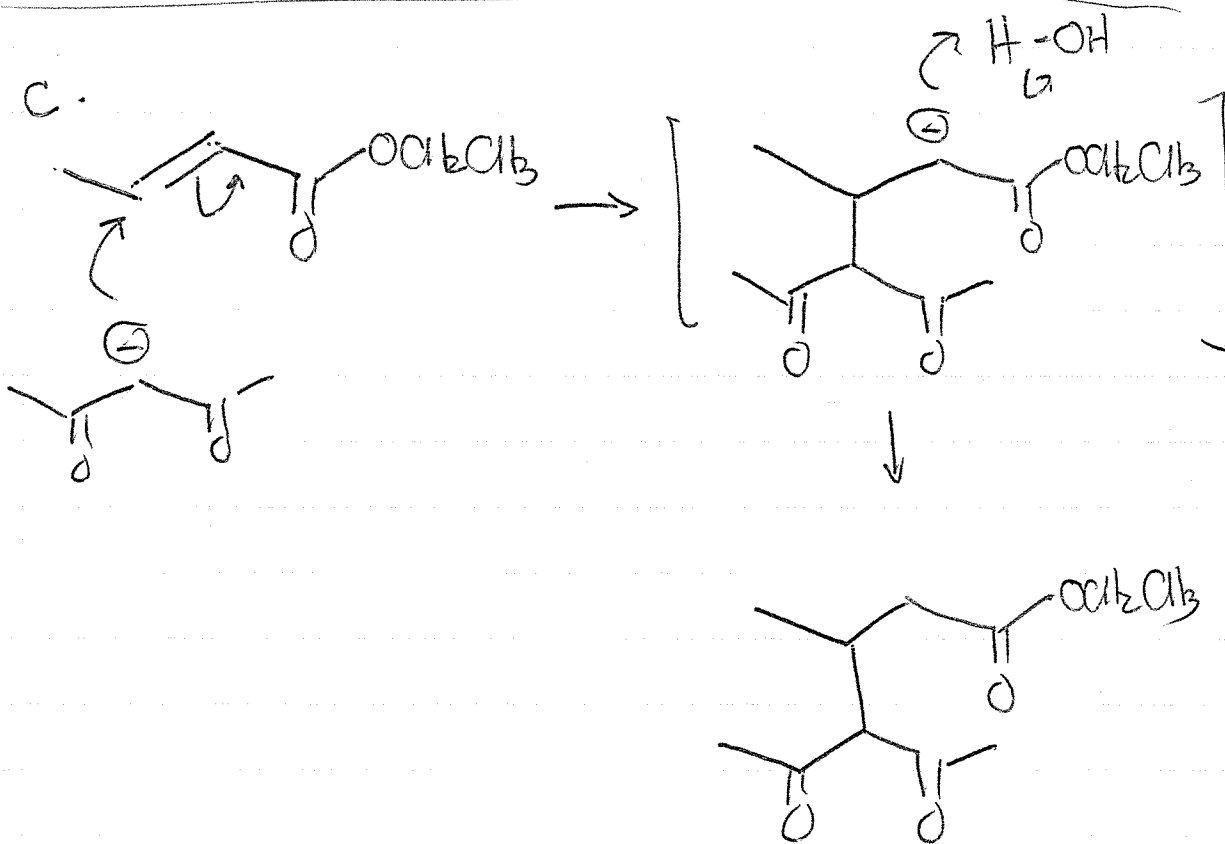
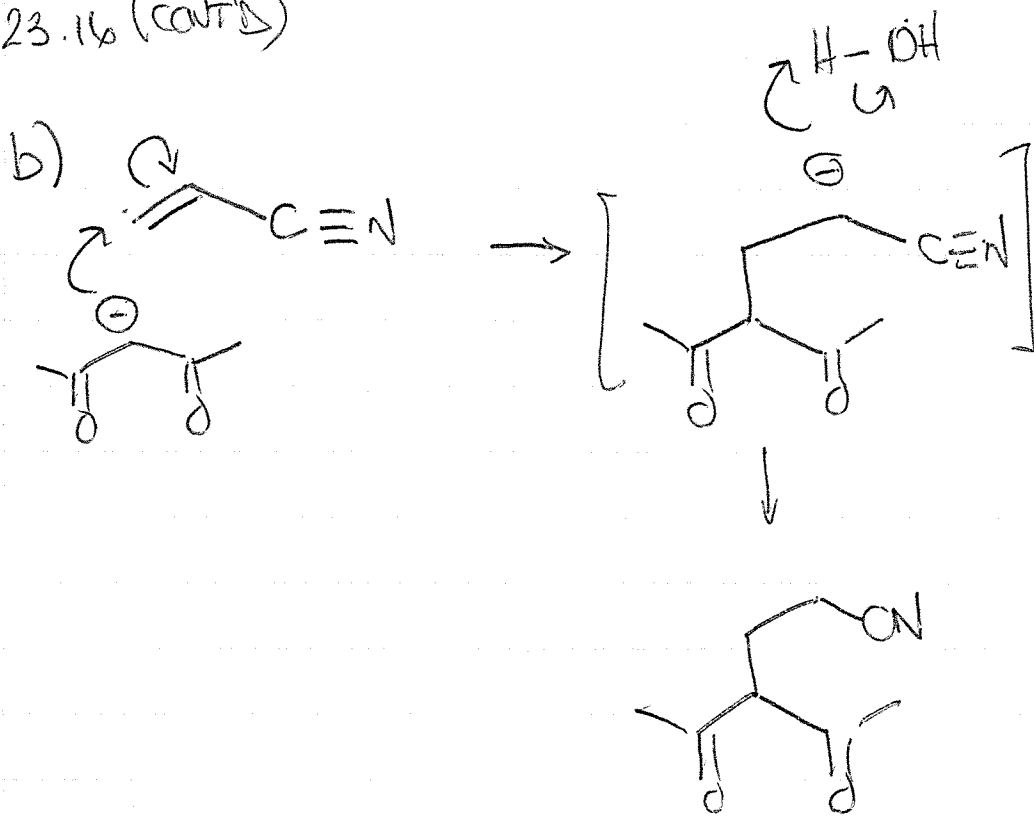
23.14 (CONT'D)

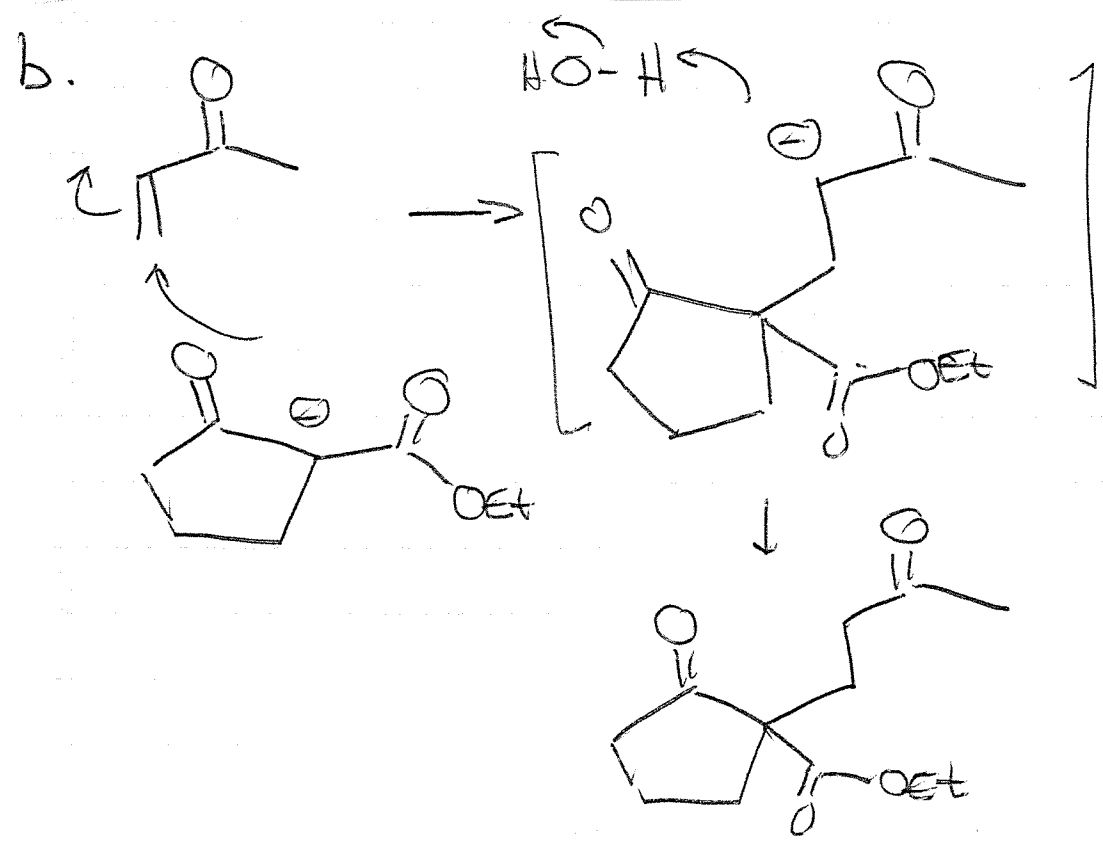
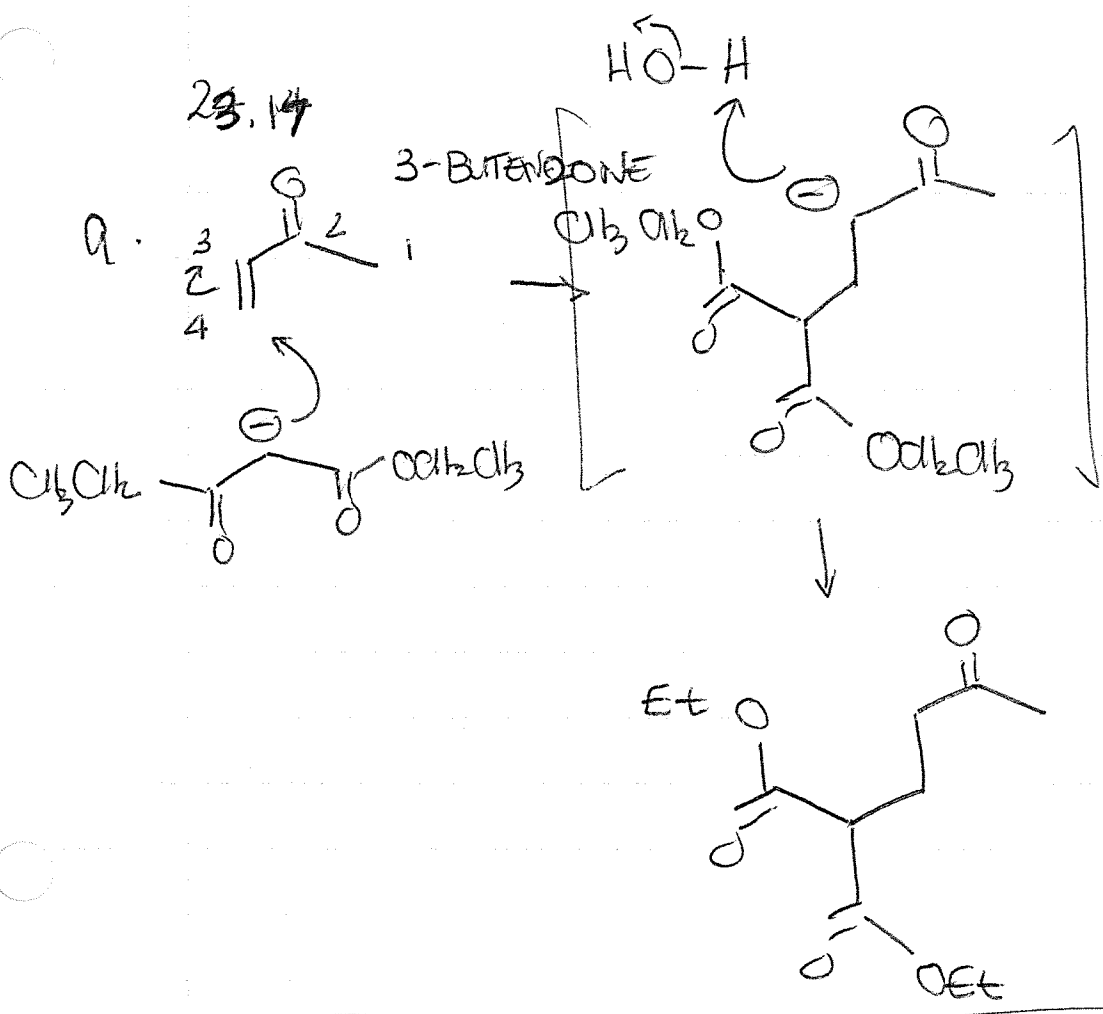


2,4-PENTANEDIONE



23.16 (CONT'D)





19,40

