

Answers to Ch2 Problems

*Please only use these to check **your** answers – there is no better way to get good at organic problems than trying to do them yourself.*

The struggle to figure out the right answer is training you to be able to answer the questions on examinations.

Being lazy and cheating yourself by not attempting these problems yourself will cause you to do horribly on my quizzes and exams.

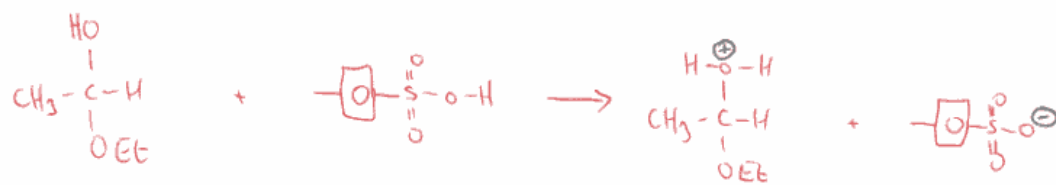
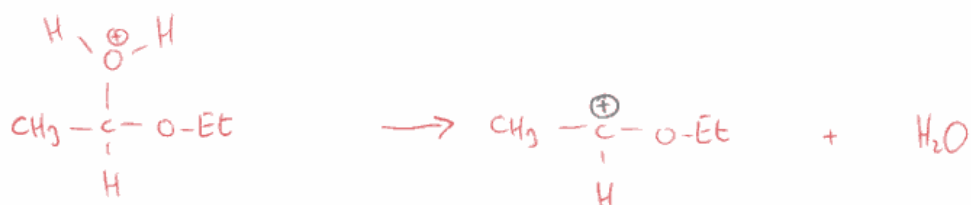
BEAR IN MIND, the problems are VERY relevant to the text they follow.

E.g. if we cover acid catalyzed dehydration, the problems directly after that in the text ***MAY involve some sort of similar mechanistic process.***

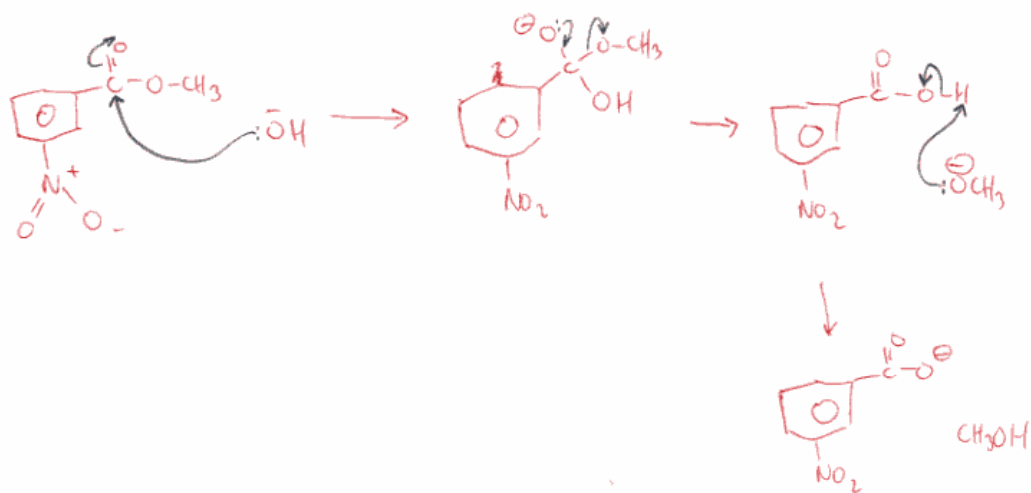
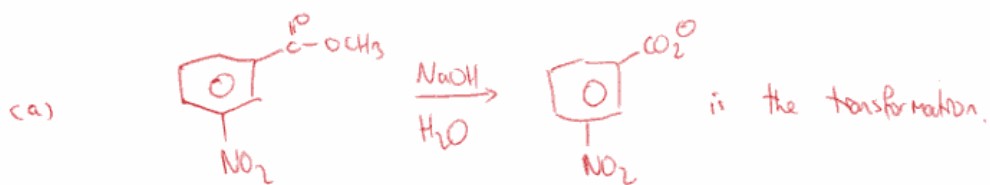
(If you are stuck, read the section in the notes directly before that problem).

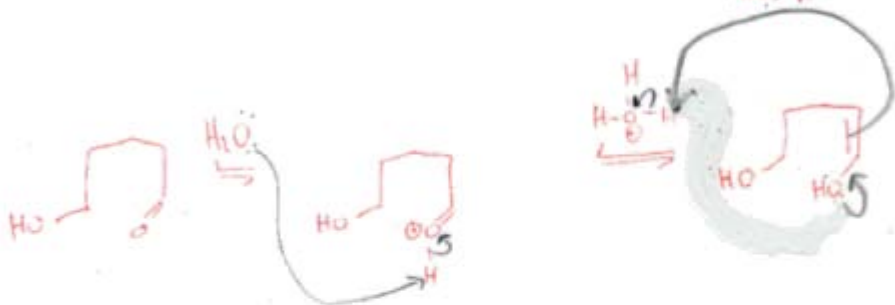
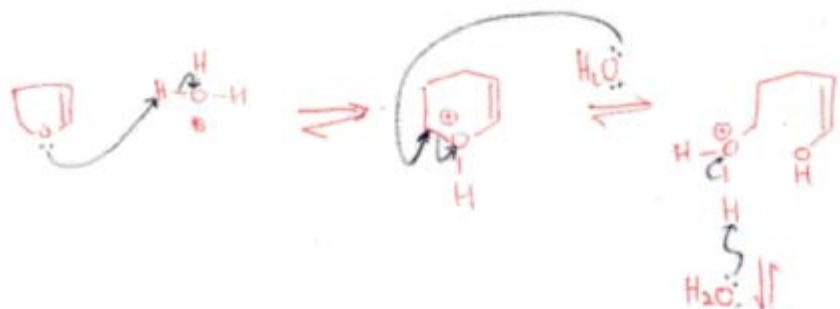
For the mechanisms I did not write out all possible resonance structures, I just put a resonance arrow to indicate that you can (*and should*) write other resonance structures.

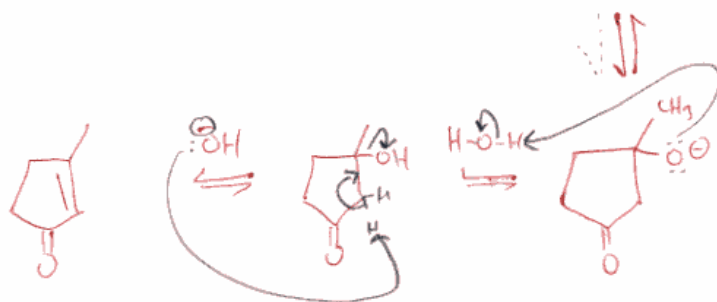
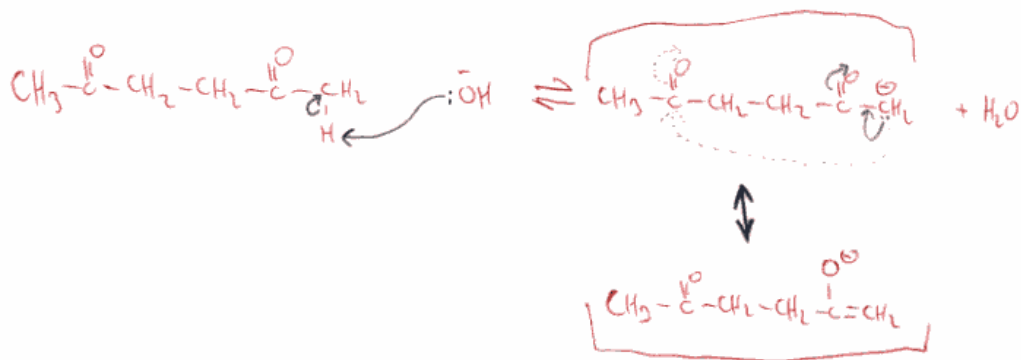
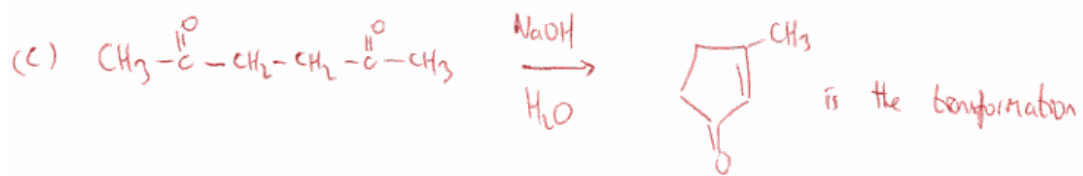
Fill in the charges



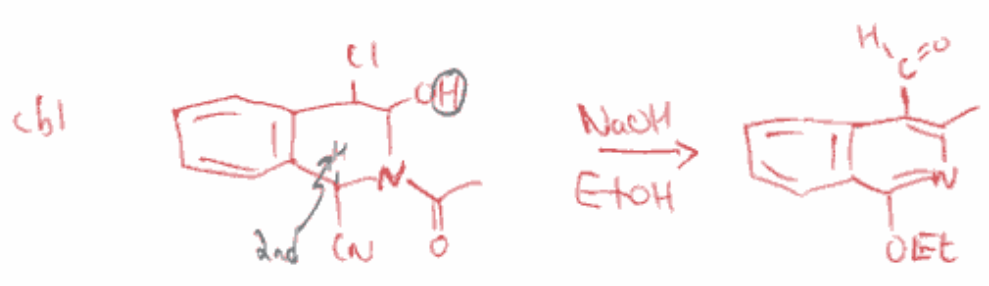
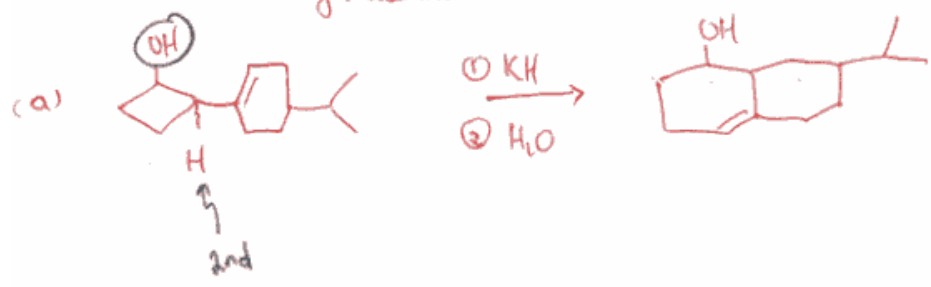
For these reactions, draw in the curly arrows:

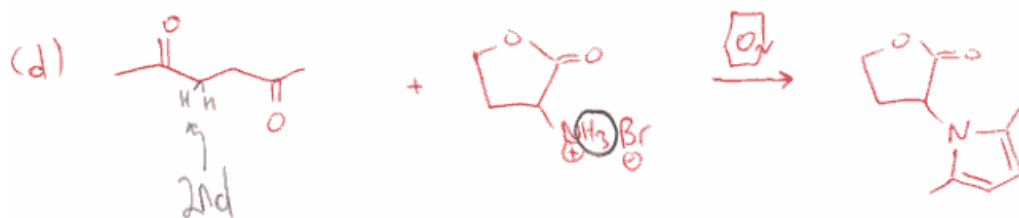
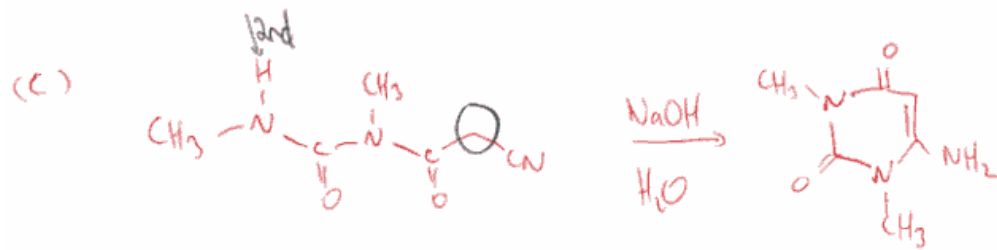




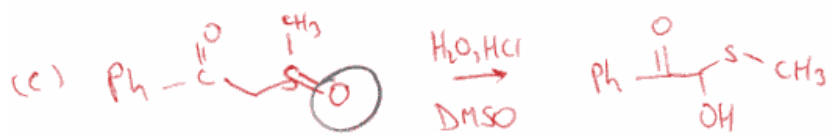
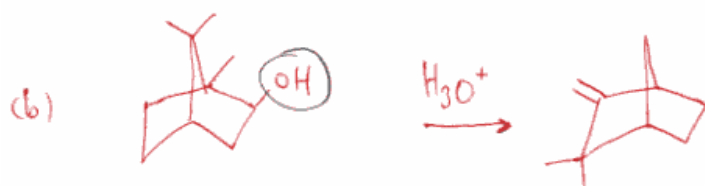


Circle the most acidic proton (also indicate the 2nd most acidic) in the starting material

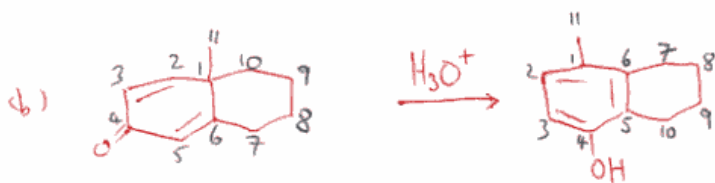
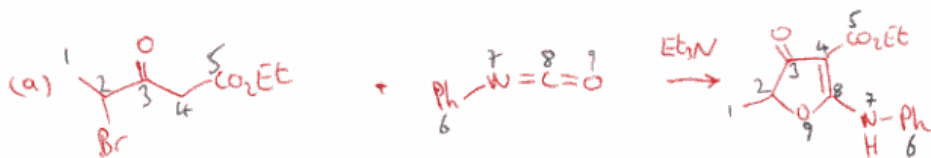




For these reactions, circle the atom most likely protonated in the S.M.



Number the starting material atoms, & label the same atoms in the product



For each transformation, a "bad" mechanism is provided.
 Highlight the errors, & write a "good" mechanism.

