

หนังสือประกอบการเรียน

Organic Chemistry, John McMurry 8th Edition, 2012.

Chapter	Topic
14-1	Conjugated compounds ✓
14-2, 14-3	Electrophilic addition to Conjugated diene
14-4, 14-5	Diels-Alder reaction
19-13	Conjugate Nucleophilic addition ✓
23-10	Conjugate Carbonyl addition: Micheal reaction ✓
23-11	Conjugate condensation with Enamine: Stork reaction ✓
23-12	The Robinson Annulation reaction

Robinson Annulation

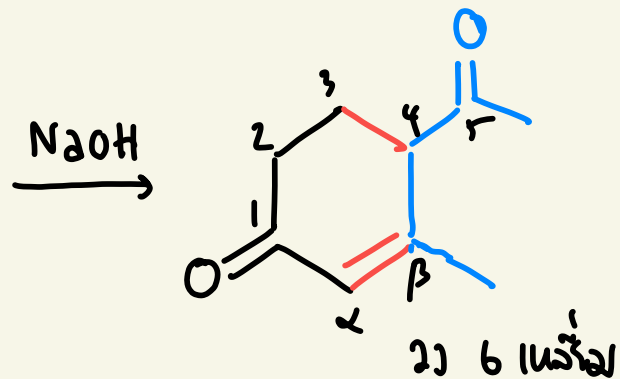
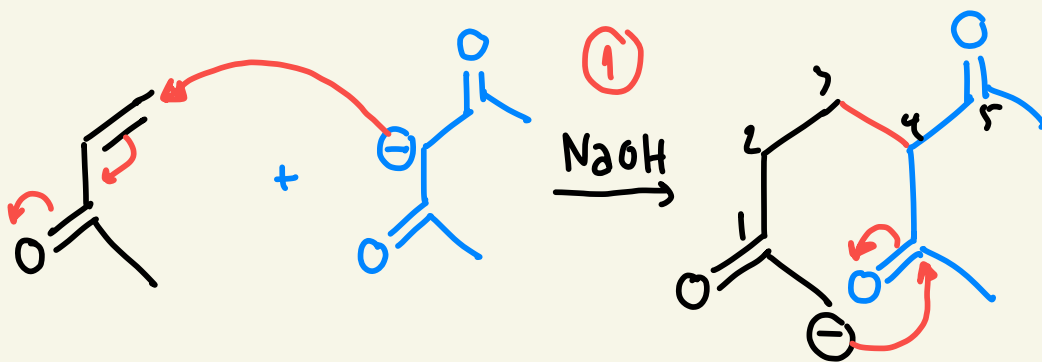
Annulus = 20

Class 3

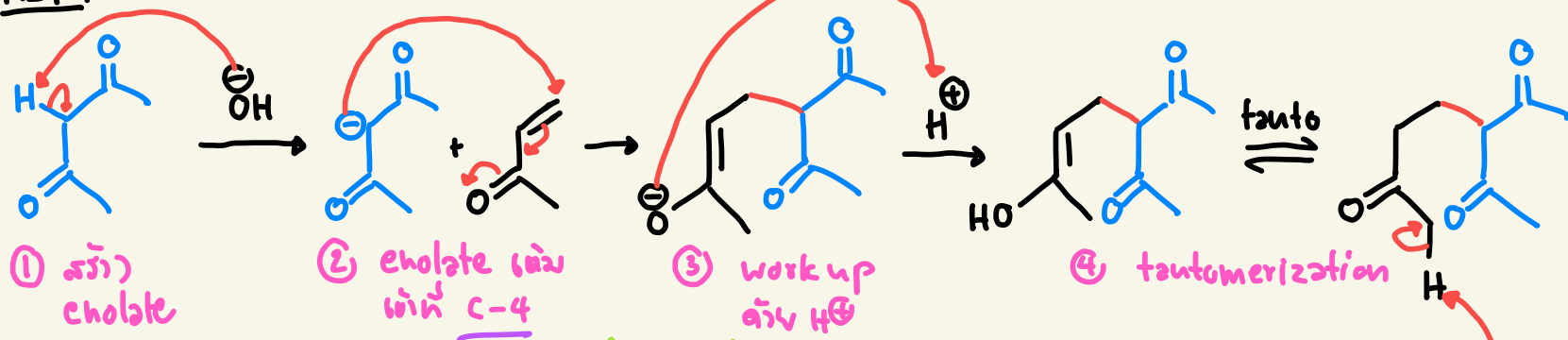
↳ ၂ ချိန်နှစ်ကပ်တော့ ကိတ်ဝါ ၂ ချိန်နှစ်

① Michael reaction

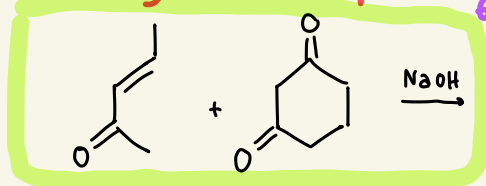
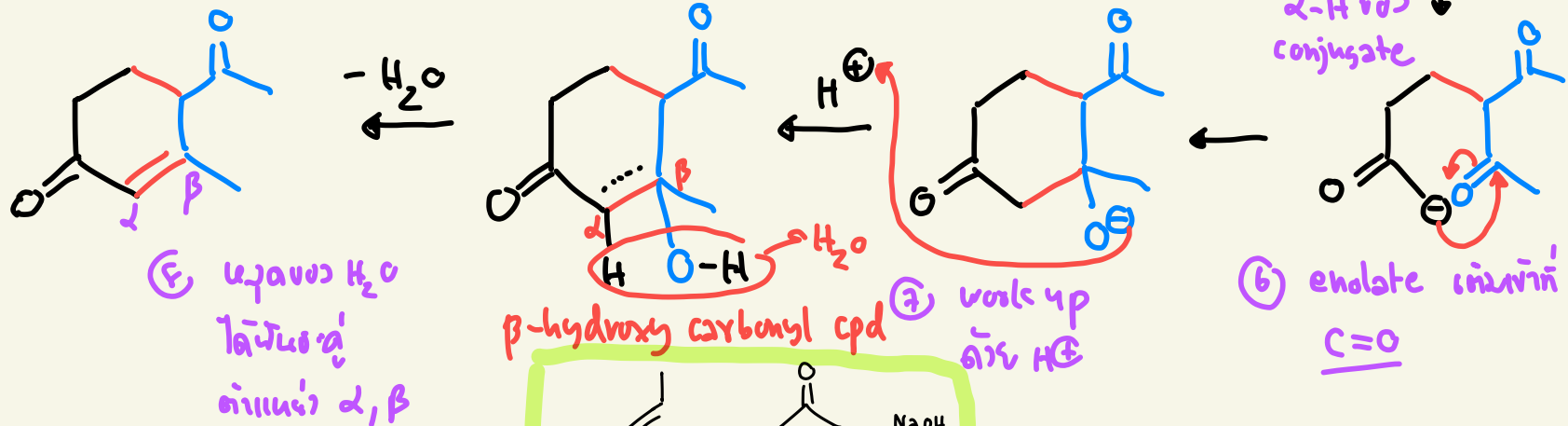
② Aldol reaction



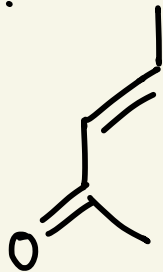
กลไก



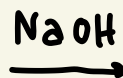
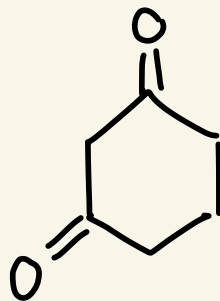
Michael reaction
Aldol condensation



Ex.



+

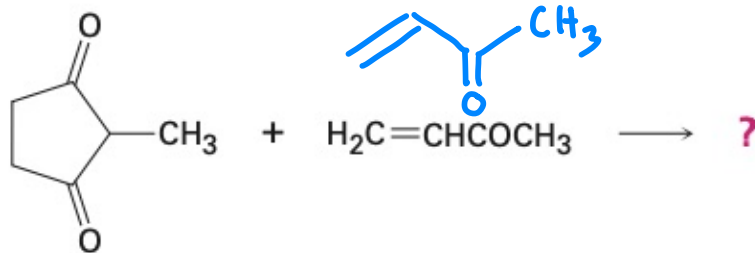


Homework 2 : Robinson Annulation



Problem 23.21

What product would you expect from a Robinson annulation reaction of 2-methyl-1,3-cyclopentanedione with 3-buten-2-one?



**2-Methyl-1,3-cyclo-
pentanedione**

3-Buten-2-one

* กรดไขมัน/กรด ตัว α -H รหัส 2 ข้อทำแนว

