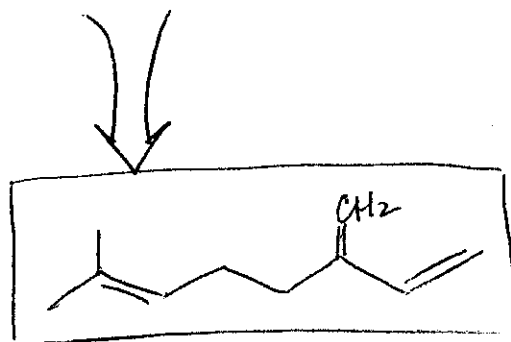
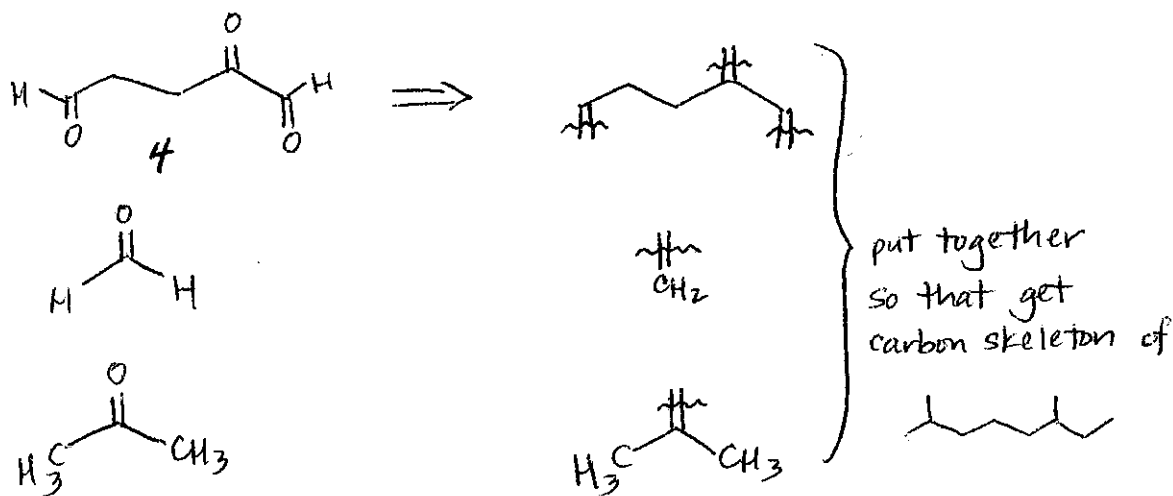
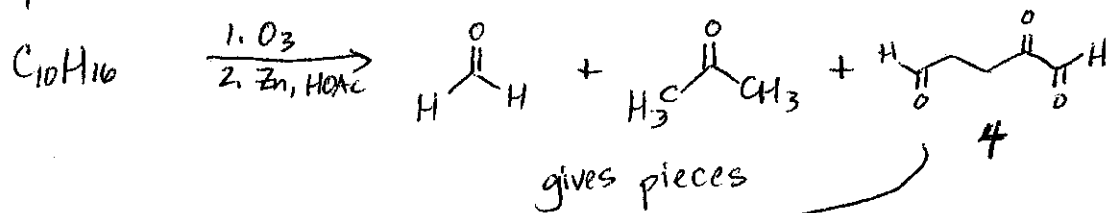
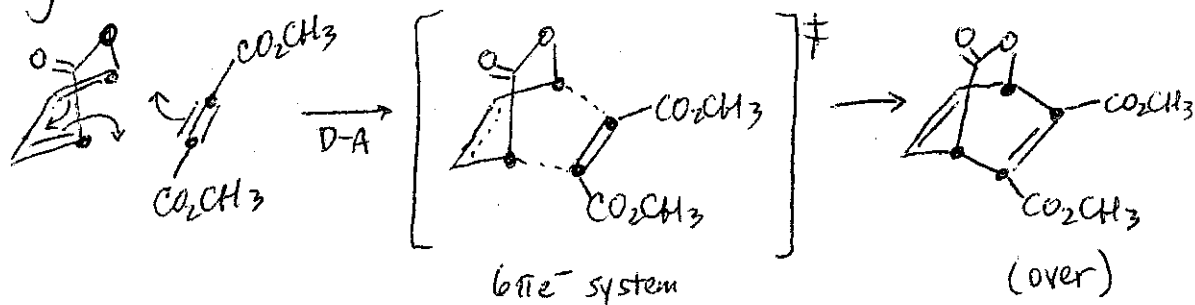
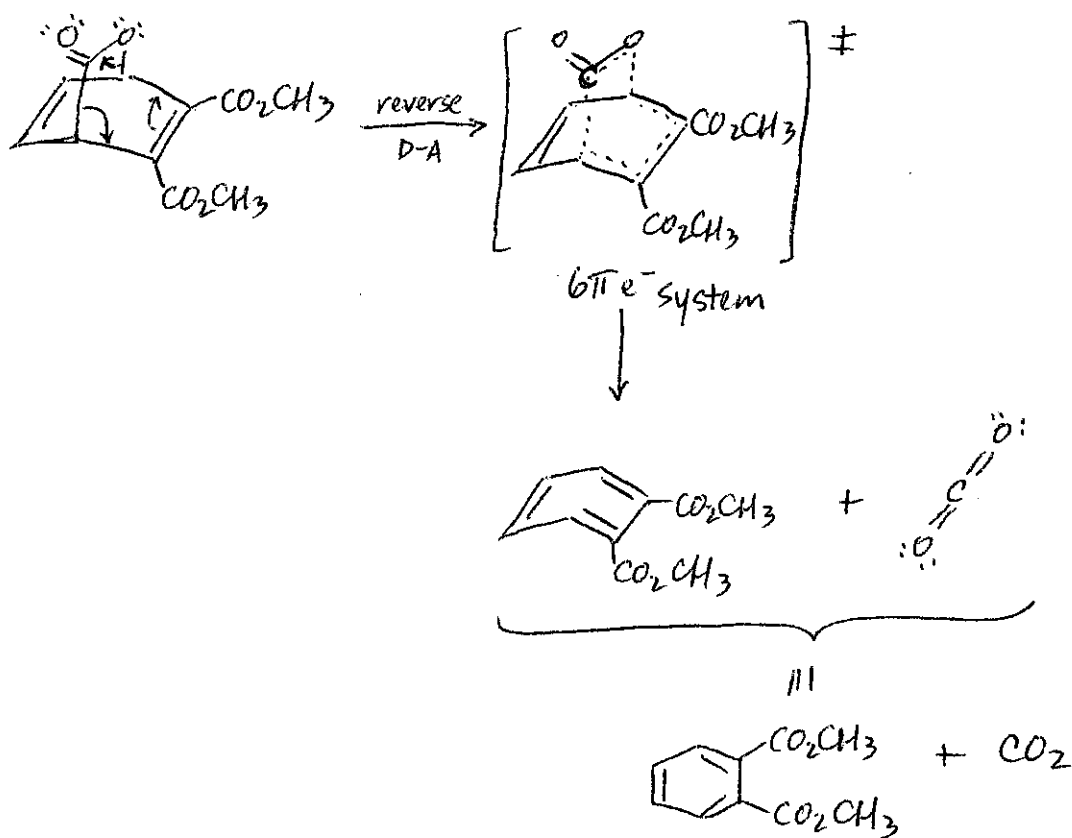


Ozonolysis:



4. There are successive Diels-Alder and reverse Diels-Alder reactions going on here:

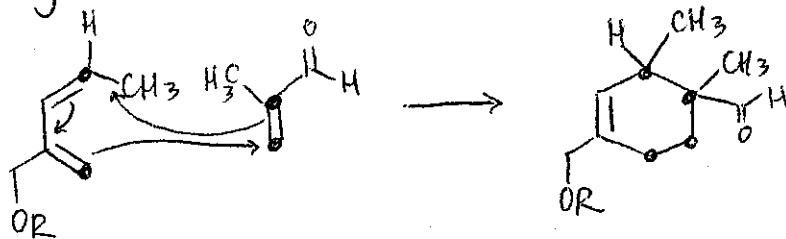




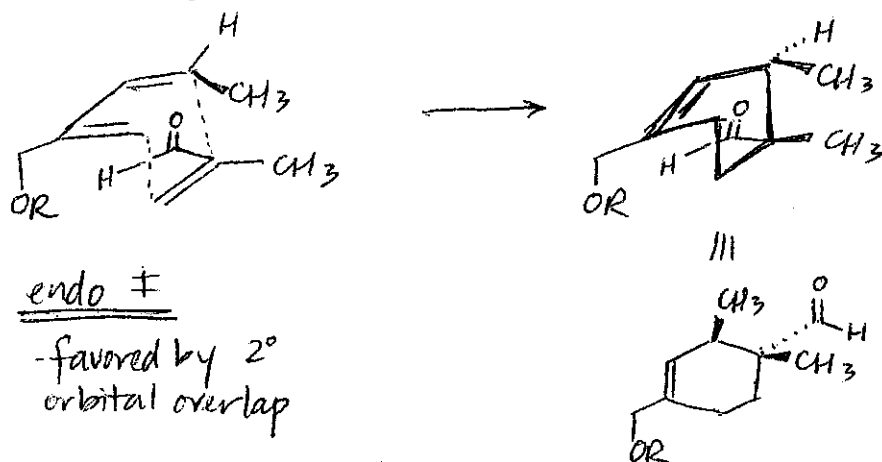
The driving force for the expulsion of CO_2 in the second step of this reaction is formation of the highly stabilized, aromatic product, . We'll learn more about

the special stability of such compounds next chapter.

5. Before going into great detail, let's do standard Diels-Alder e^- pushing:

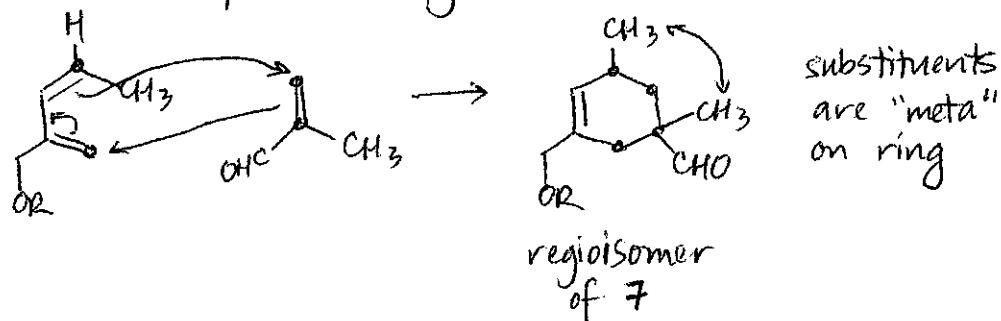


(a,b) Now, draw good pictures to address stereochemistry:



This is the enantiomer of **7** — **7** and its enantiomer (shown here) are produced in equal amts. in this reaction

(c) The other possible regioisomer would be:



The "meta" product is usually disfavored in Diels-Alder reactions.