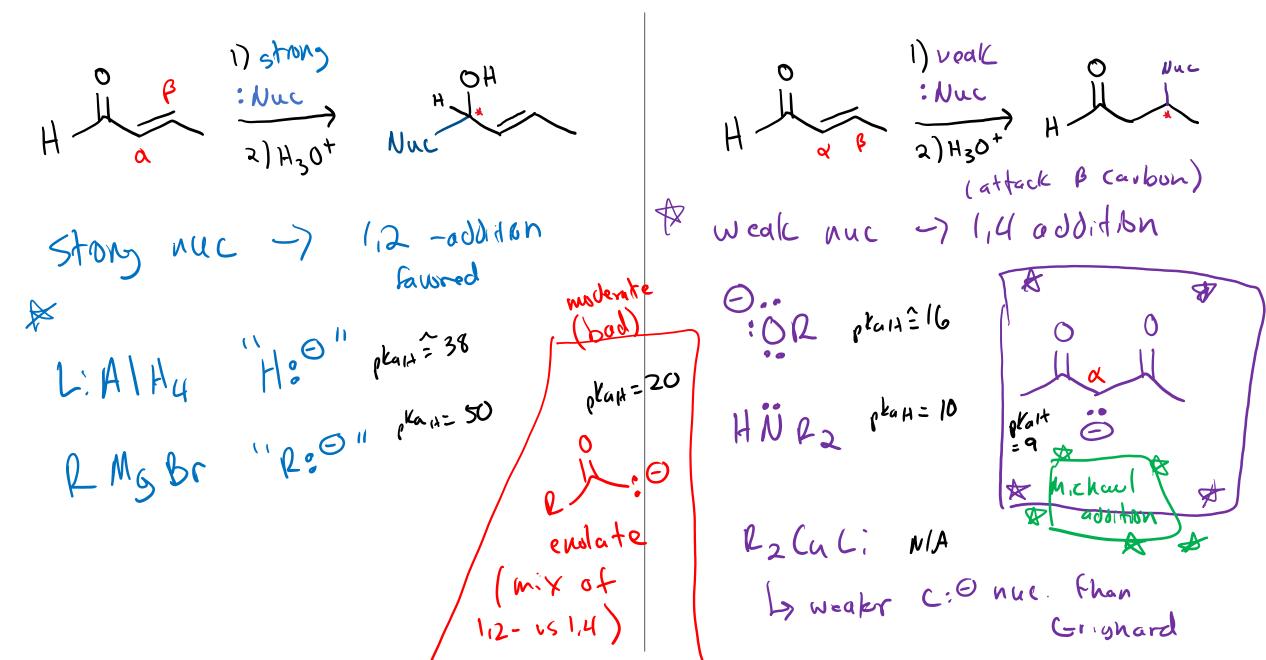
No recitation or a uit on Friday

Conjugate Addition & Michael Addition

Diels Alder intro

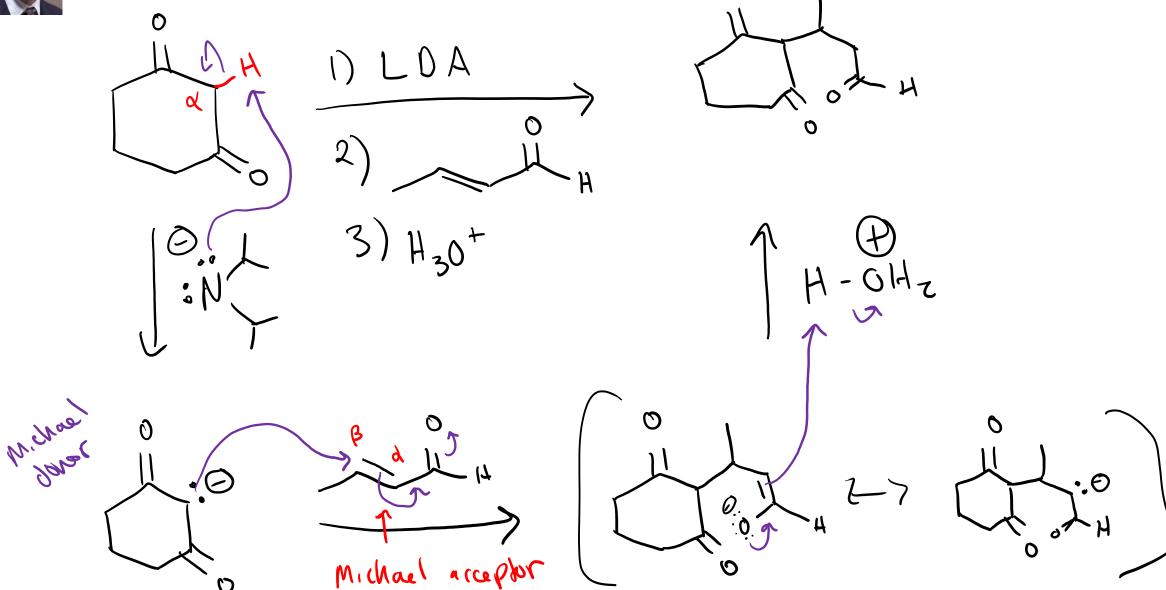
4/3/2023

1,2- vs 1,4-addition: Strength of Nucleophiles and Regioselectivity





Michael Addition



Michael Donors and Acceptors & C=N act a lot like c=0 **

(calbony's)

Michael Donors

anythmy w/ doubly stubilited

evolute

- OEf + - CN (an react more bo....

Michael Acceptors

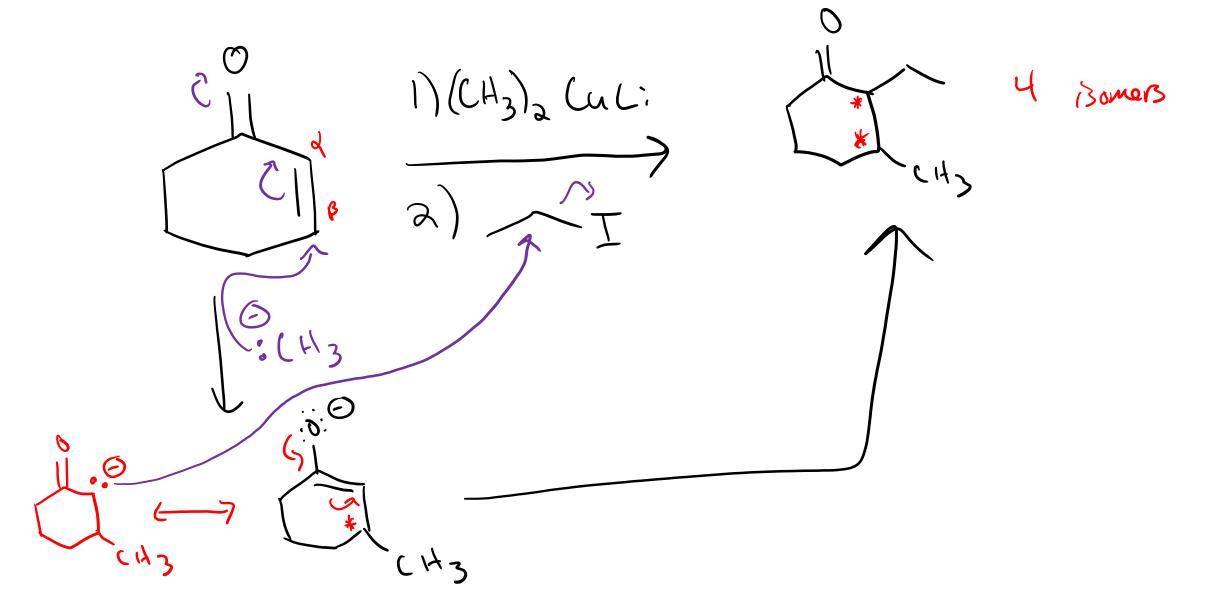
d, B- unsat. carbonyls (no carboxylic acids)

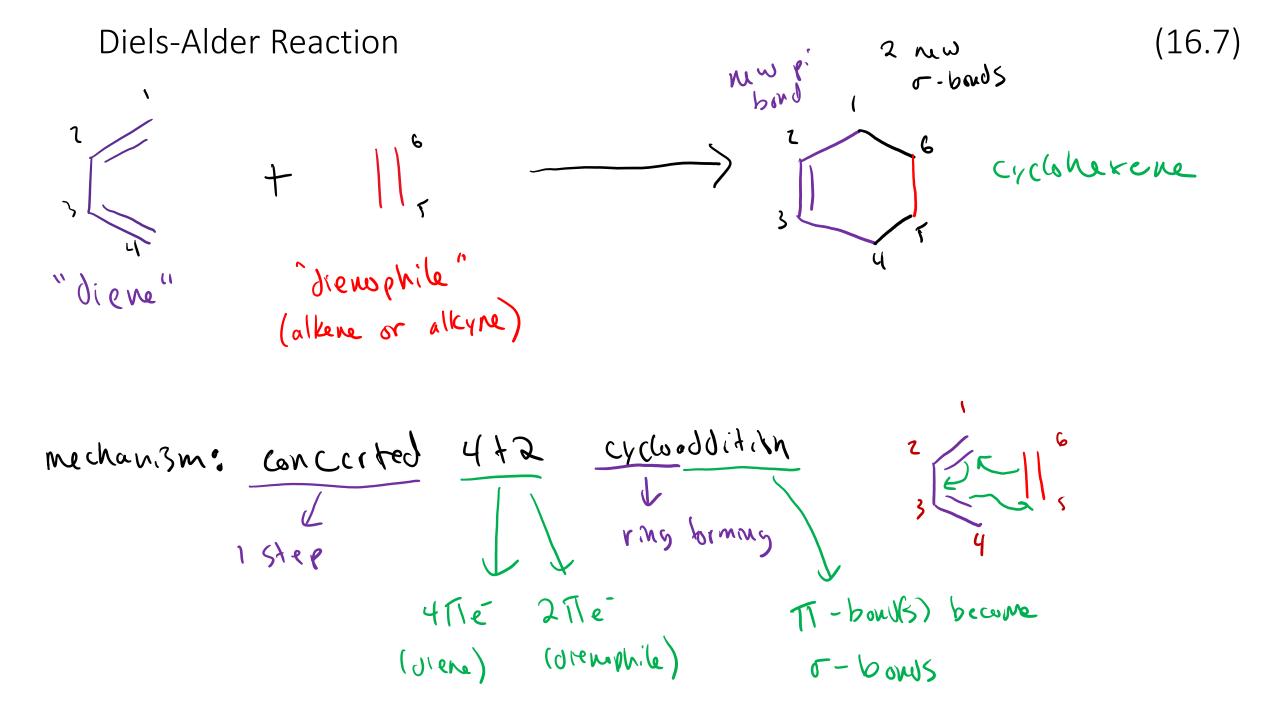
-R (R=alkylorH)

Michael Addition: Examples

Michael Addition: Examples

Michael Addition: Examples





Requirements of the **Diene**

(1) The diene must be conjugated (1,3-drene)

| 2 3 4 1 2 4

The diene must be in the "S-cis" conformation to react Special Cases: rotation is think rotation here impossible 100 10 5-03 reactive in D.A. rxn 5 - truns" Q=H 95% 100% s-tars 5% R= (43 99.5% 0,5 % No. P. A. TXU!