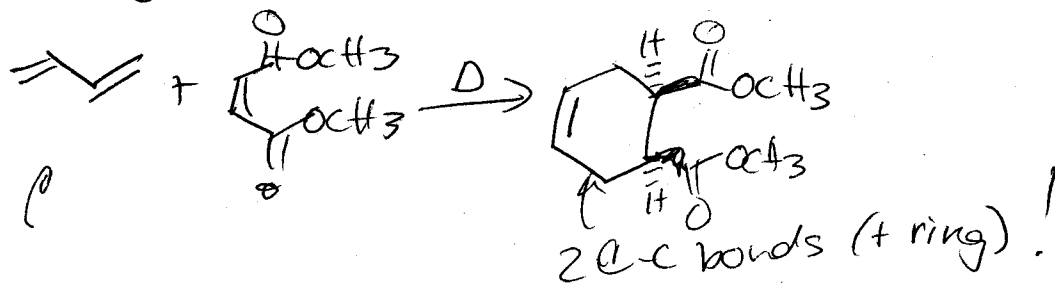


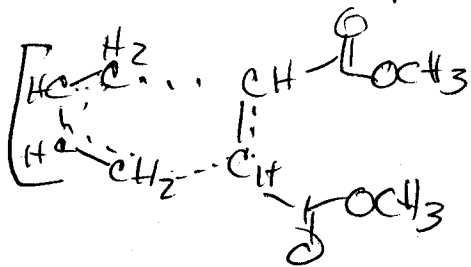
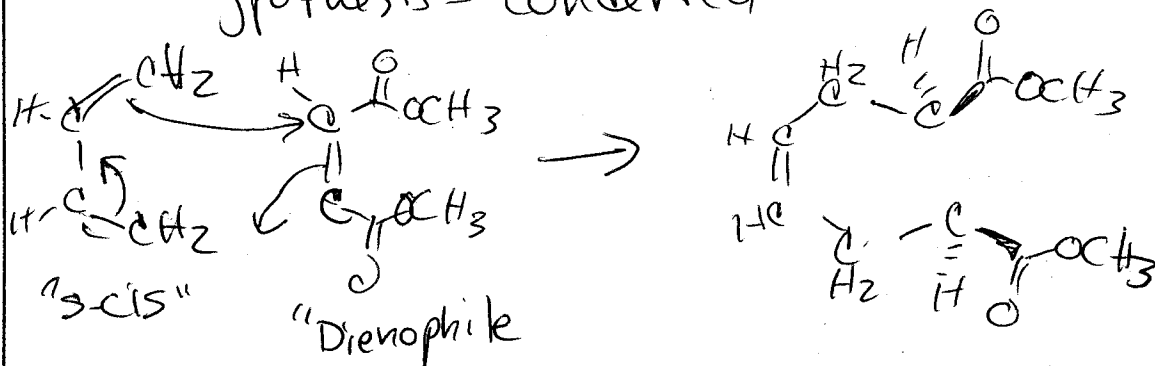
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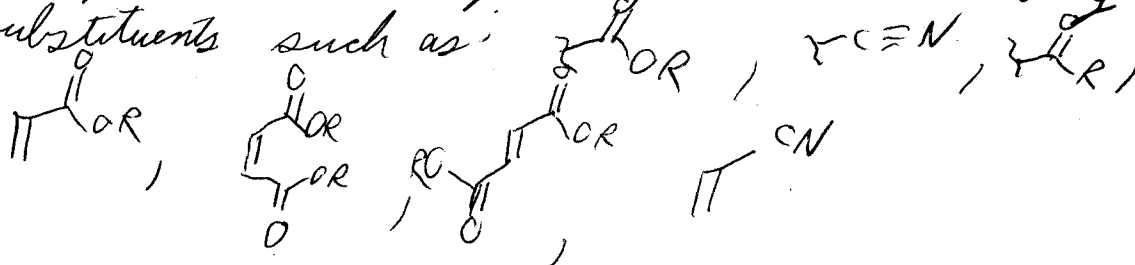
Conjugated Diene - Distinctive Rxn - Diels Alder Rx



mech hypothesis - concerted



Phenols commonly bear e^- withdrawing substituents such as: H_2O , CN , R



Final

Coon

7:45 AM

Sunday 18th

A-E → Psych

127

F-2 → Psych 109

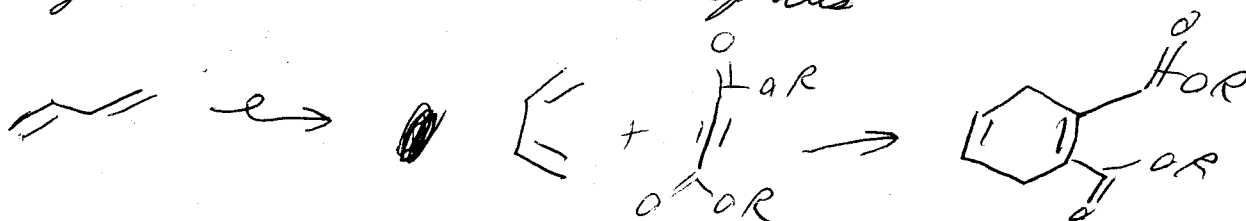
Commutator

Ch 17, 15

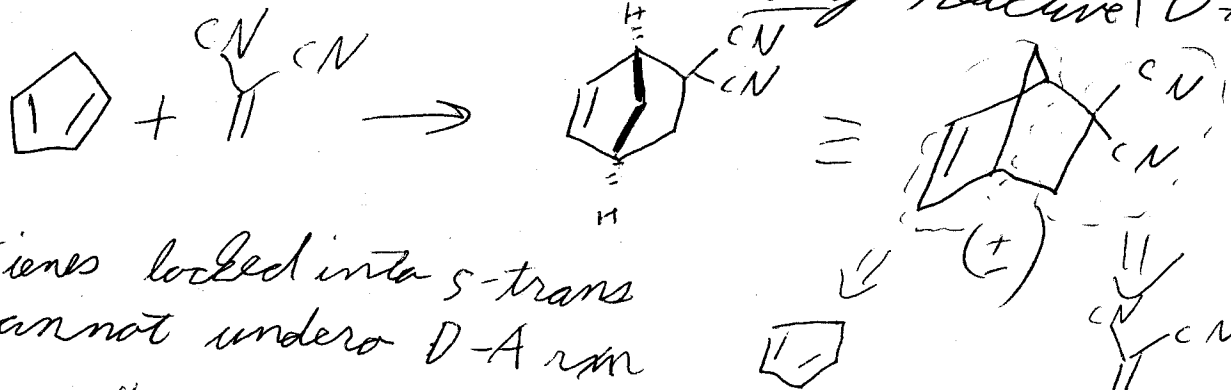
emphasized

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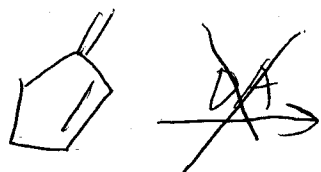
• Alkynes can serve as dienophiles



Dienes locked into s-cis are very reactive (D-A)

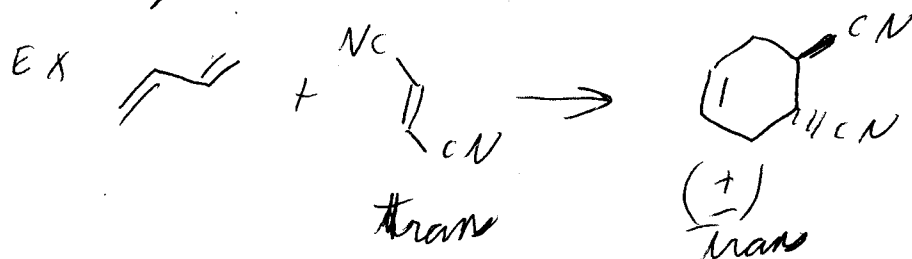


Dienes locked into s-trans cannot undergo D-A rxn



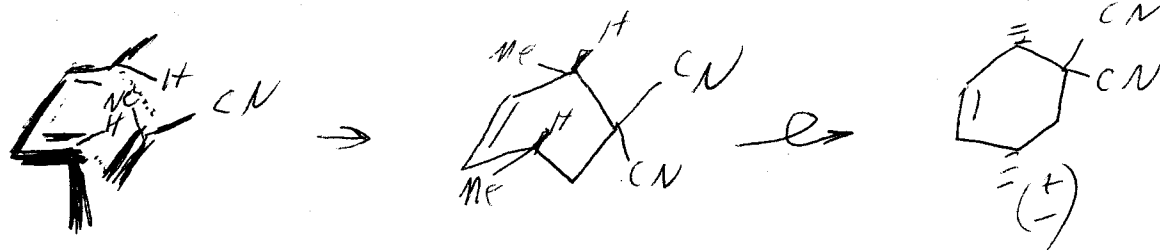
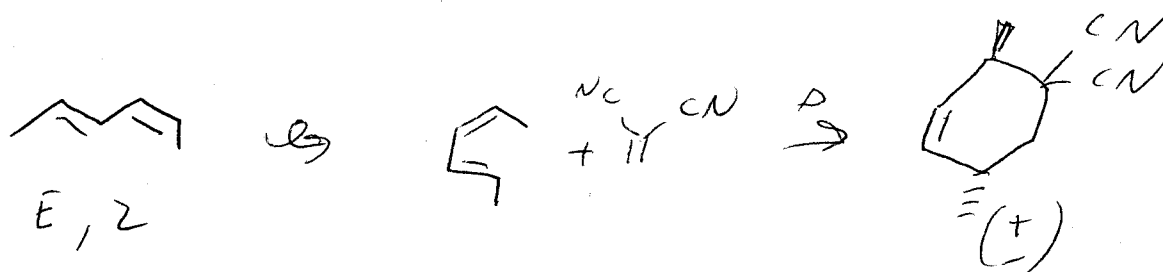
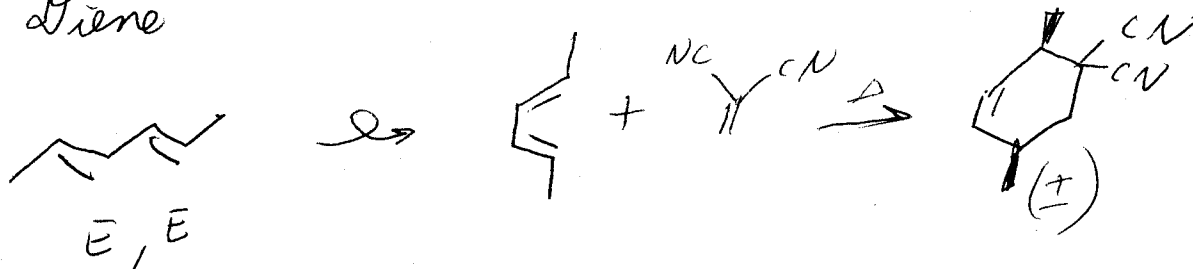
Stereochemistry of D-A rxn

1) Dienophile

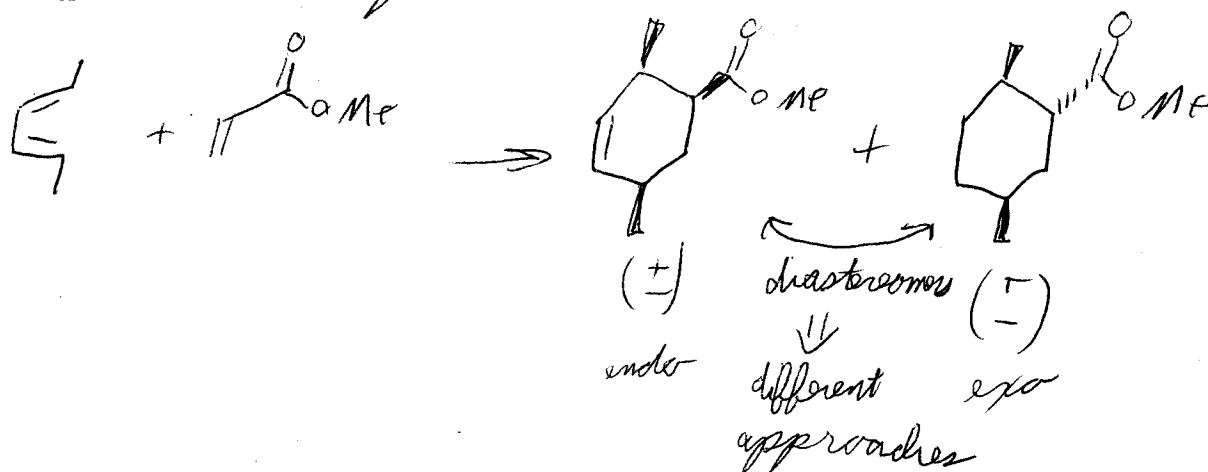


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2) Diene



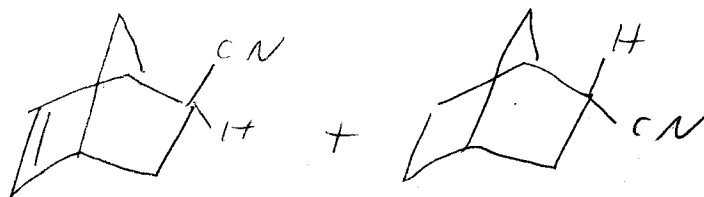
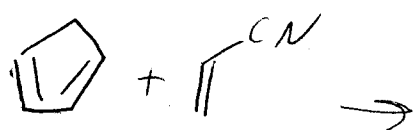
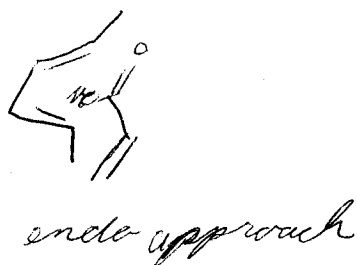
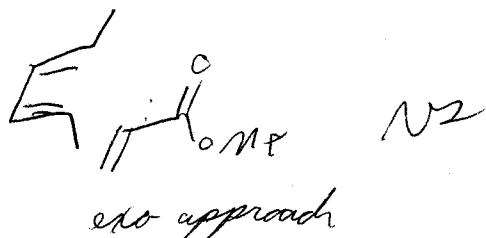
3) Diene vs. dienophile



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Different orientations of DA reactants

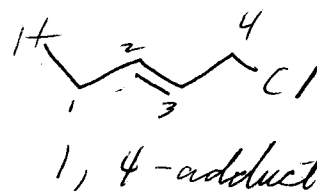
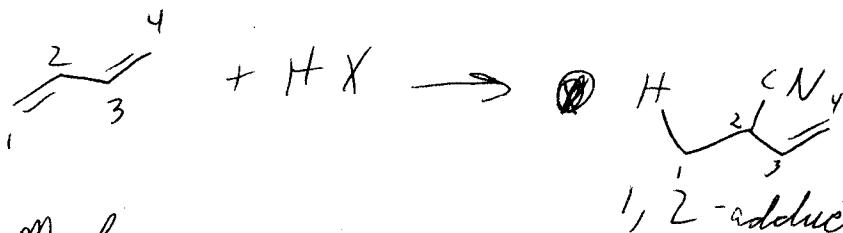


exo

endo
↓
preferred

Don't worry about
endo & exo for this
course, just know
both possible

• HX addition to conjugated dienes

Mech