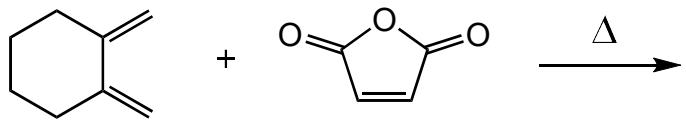
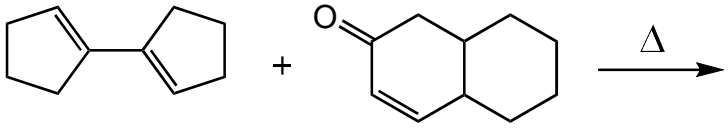
Cal Poly Pomona, Organic Synthesis CHM 4220
Dr. Laurie S. Starkey, **Diels-Alder Homework**

Name: _____

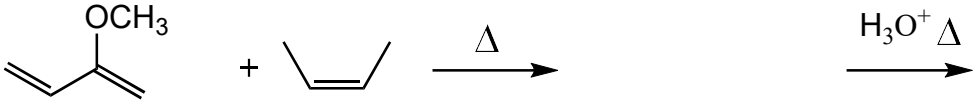
A)



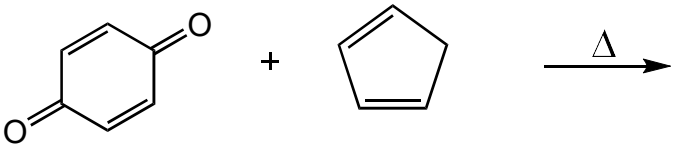
B)



C)



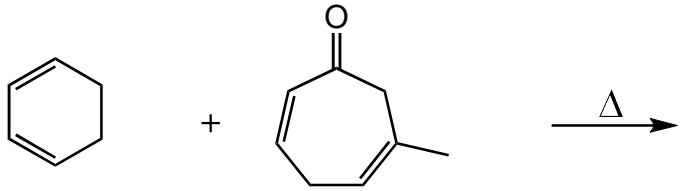
D)



E)

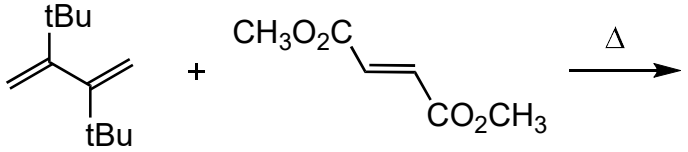
provide starting materials (explain disconnection)

F)



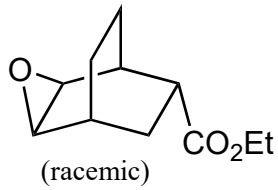
which pi bond reacts?
(explain)

G)



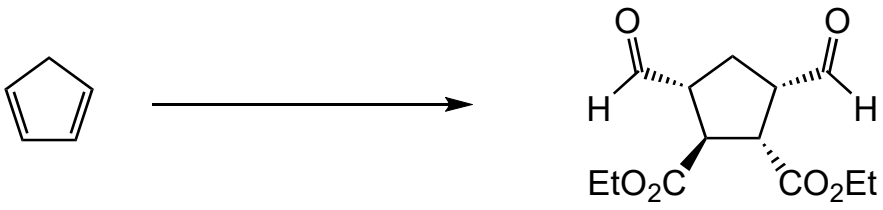
No Reaction (explain)

H) Synthesize the given TM from starting materials containing carbon chains no more than six carbons:



(racemic)

I) Provide the reagents necessary to transform the given starting material into the desired TM. Draw at least a few of the structures formed along the synthetic route (e.g., show your work). It may help to first consider the retrosynthesis of the TM.



TM

J) Provide the missing reagents.