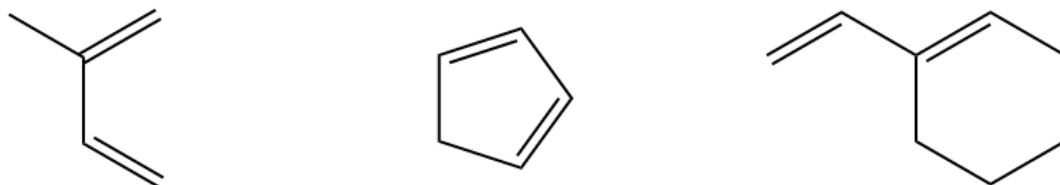


CONCEPT: DIELS-ALDER REACTION- GENERAL FEATURES

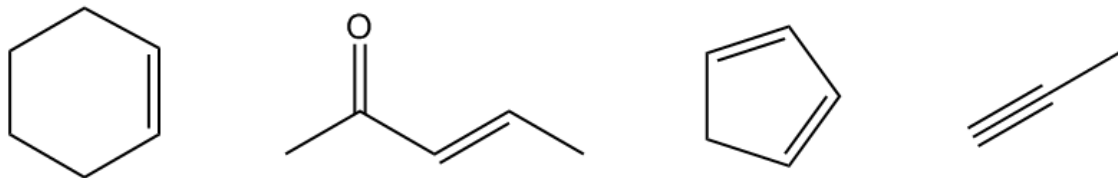
The Diels-Alder reaction is a heat-catalyzed, reversible **pericyclic** reaction between a conjugated *1,3-diene* and *dienophile*.

- Diels-Alder reactions always yield 6-membered rings as products.

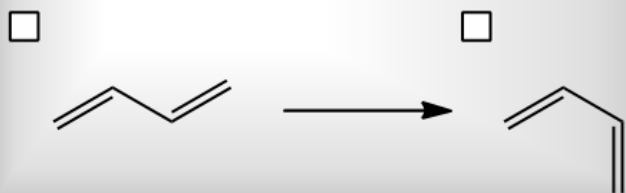
1,3-Dienes:



Dienophiles:



The 1,3-diene must be rotated into the s-cis (σ -cis) conformation



General Mechanism:



The stereochemistry of all substituents must be _____

