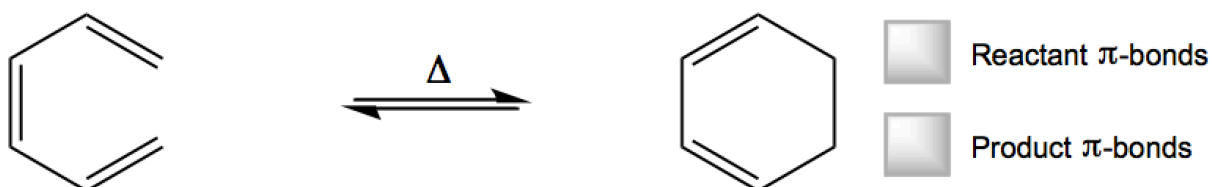


CONCEPT: THERMAL ELECTROCYCLIC REACTIONS

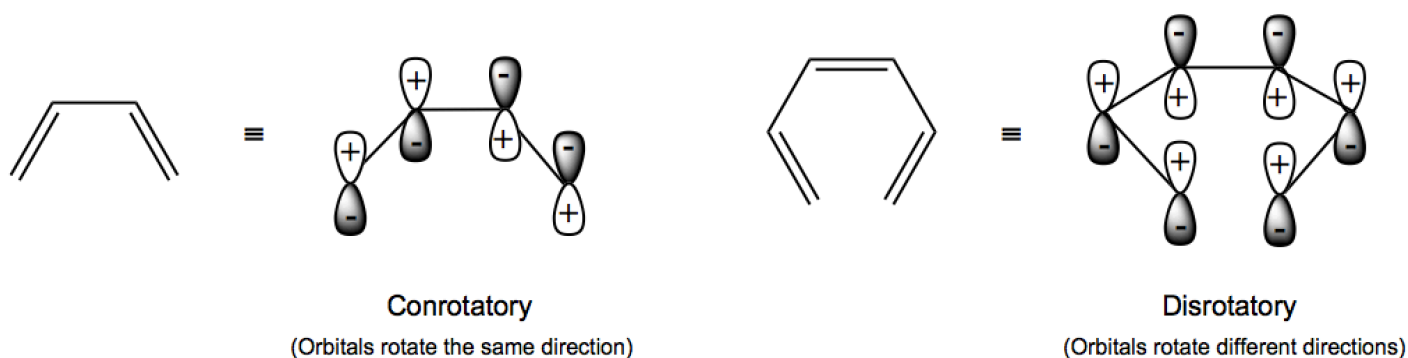
- Pericyclic reactions in which _____ **π -bond** is destroyed after a _____-activated cyclic mechanism

☐ Always *intramolecular*



- All conjugated polyenes are capable of intramolecular electrocyclic reactions, however stereochemistry is variable.

☐ The HOMO orbital is capable of cyclizing in either a _____ or _____ fashion



- When substituents are involved in cyclization, stereochemistry is dependent on rotation type.

EXAMPLE: Predict the product in the following electrocyclic reaction. Label the reaction as either conrotatory or disrotatory.

