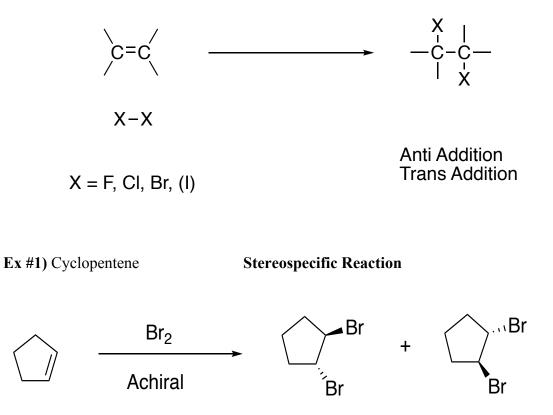
## Halogenation: Addition of halogens across a double bond

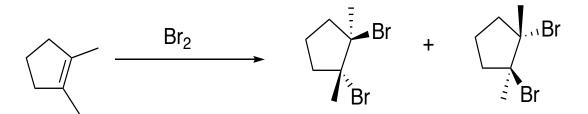


Achiral

trans-1,2-Dibromocyclopentane

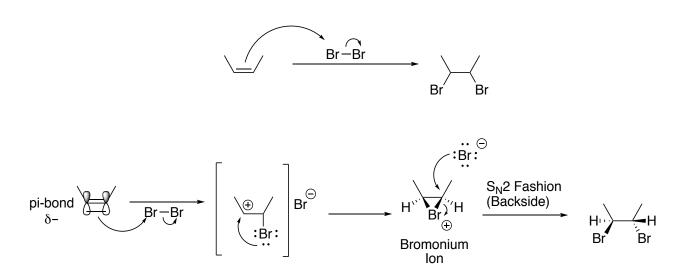
Both enantiomers formed (1:1 racemate)

Ex #2) 1,2-dimethylcyclopentene

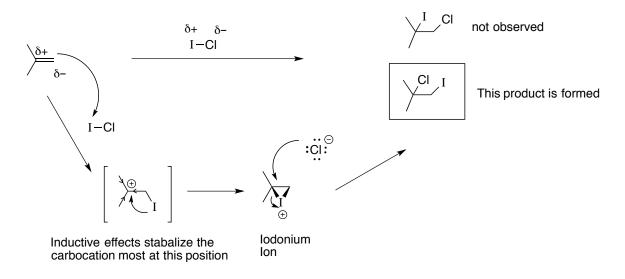


trans-1,2-Dibromo-1,2-dimethylcyclopentane

Mechanism:







**Markovnikov's Rule:** In an addition reaction, the positive end of an A–B system (e.g. I–Cl) adds to the least substituted end of the double bond to make the more stable carbocation.