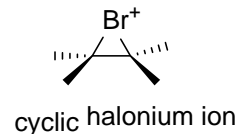


- 1) [1 pt] Explain the 2 steps of the electrophilic addition mechanism
- 2) [1 pt] Does electrophilic addition of bromine to an alkene affords a CIS or a TRANS dibromide? (*Circle your answer*)

- 3) [1 pt] Is the regiochemistry of the attack of the nucleophile to the bridged ion intermediate is dominated by ELECTRONIC effects or STERIC effects? (*Circle your answer*)



- 4) [1 pt] What kind of compound would a double E2 elimination of a vicinal dibromide would afford?
- A ketone
 - An alkene
 - An alkyne
 - A mono-bromide compound
 - A phenyl
- 5) [1 pt] A typical dehydrohalogenation is favored when the leaving group is oriented ANTI or SYN with the acidic β -hydrogen? (*Circle your answer*)
- 6) [1 pt] What is the purpose of using triethylene glycol as a solvent for the double E2 elimination reaction?