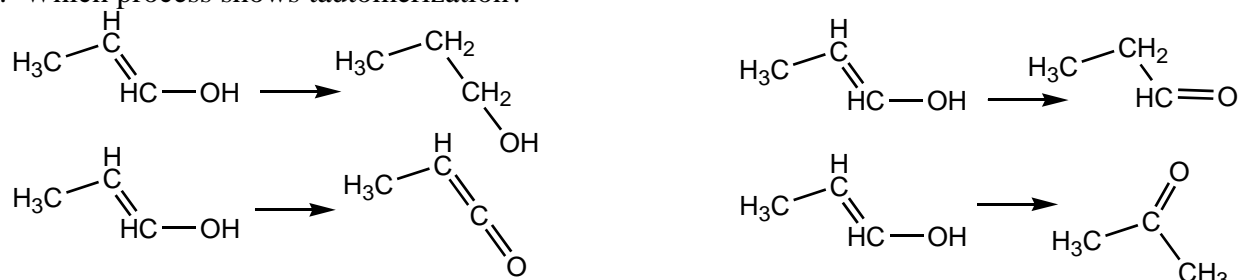
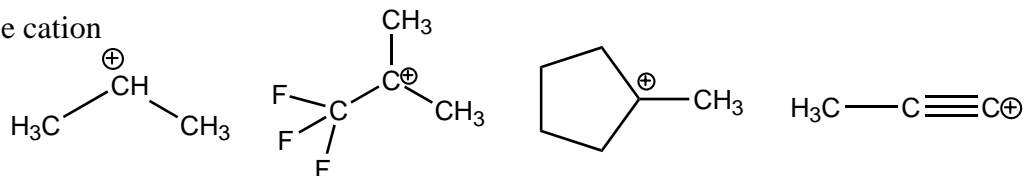


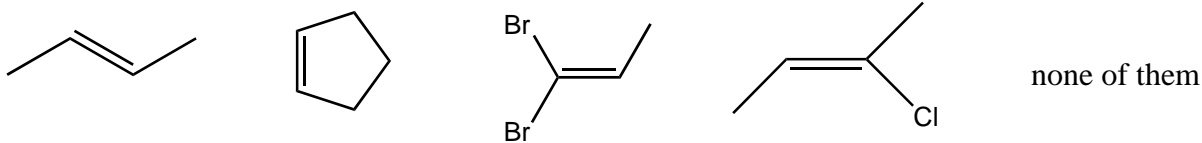
5. Which process shows tautomerization?



7. Circle the most stable cation



8. Which alkene is both Z and trans?



9. A 2-step mechanism has ___ intermediates and ___ transition states.

1, 1 1, 2 2, 1 2, 2 1, 0 0, 1 2, 3 3, 2 3, 3

VI. Reactions and synthesis. Fill in the missing product for the reactions. When the product and starting material are given, write a series of reagents, in separate steps (on separate arrows) that would result in a practical laboratory synthesis. Show stereochemistry where necessary. 5 pts each, 20 pts total

