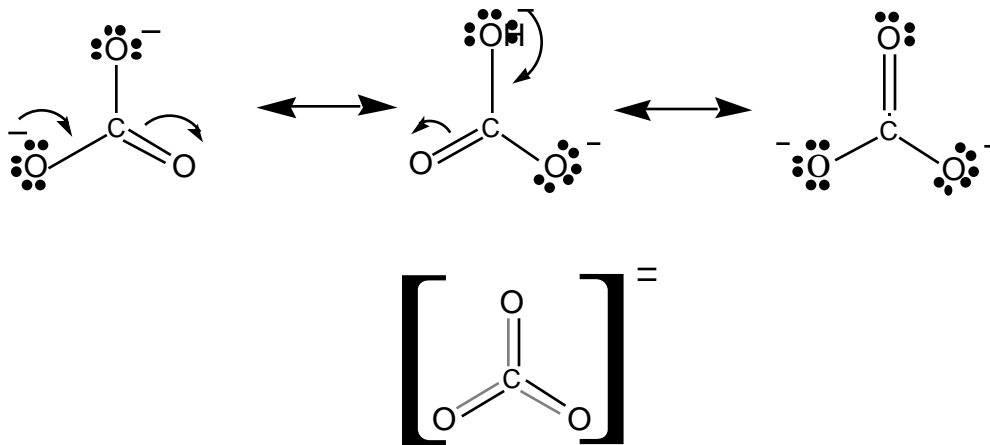
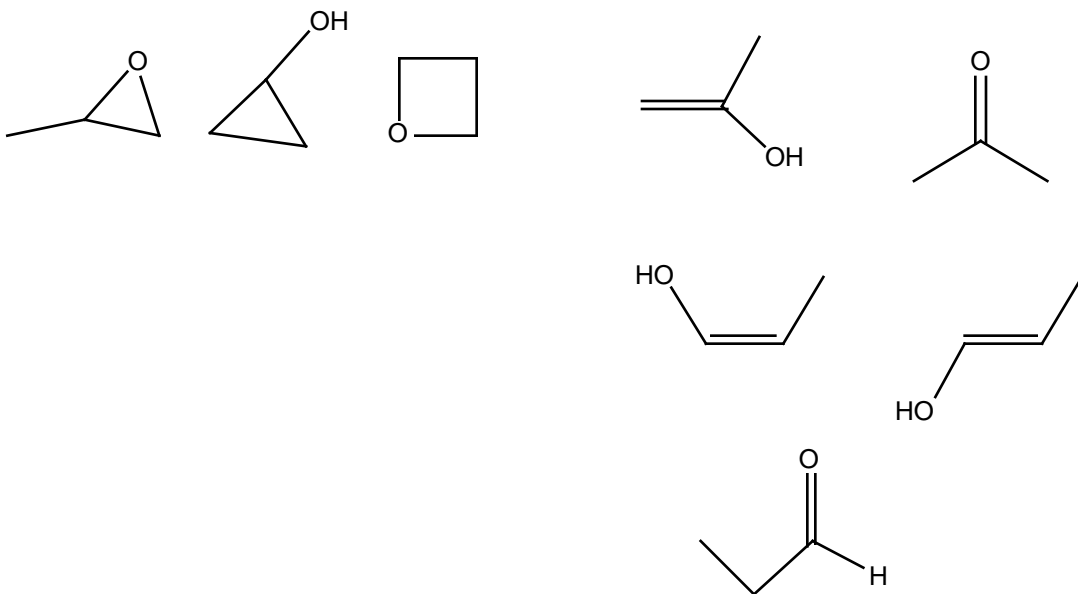


Test 1 Answers 1998

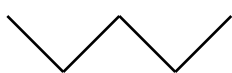
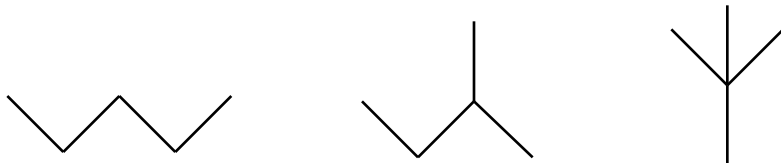
Question 1



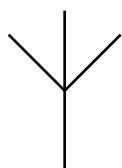
Question 2



Question 3

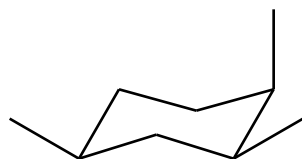
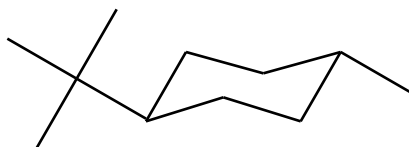
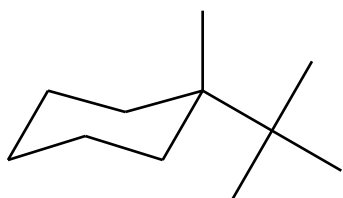


Highest Boiling -- Largest Surface Area

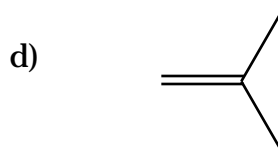
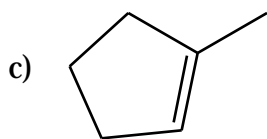
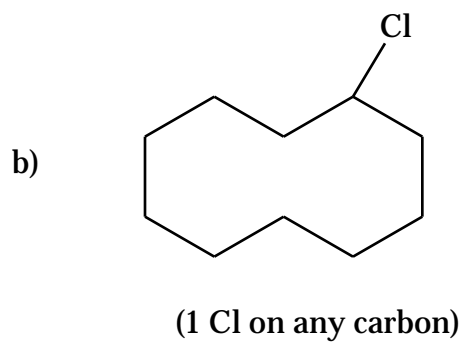
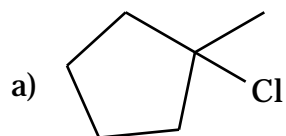


Lowest Boiling -- Least Surface Area

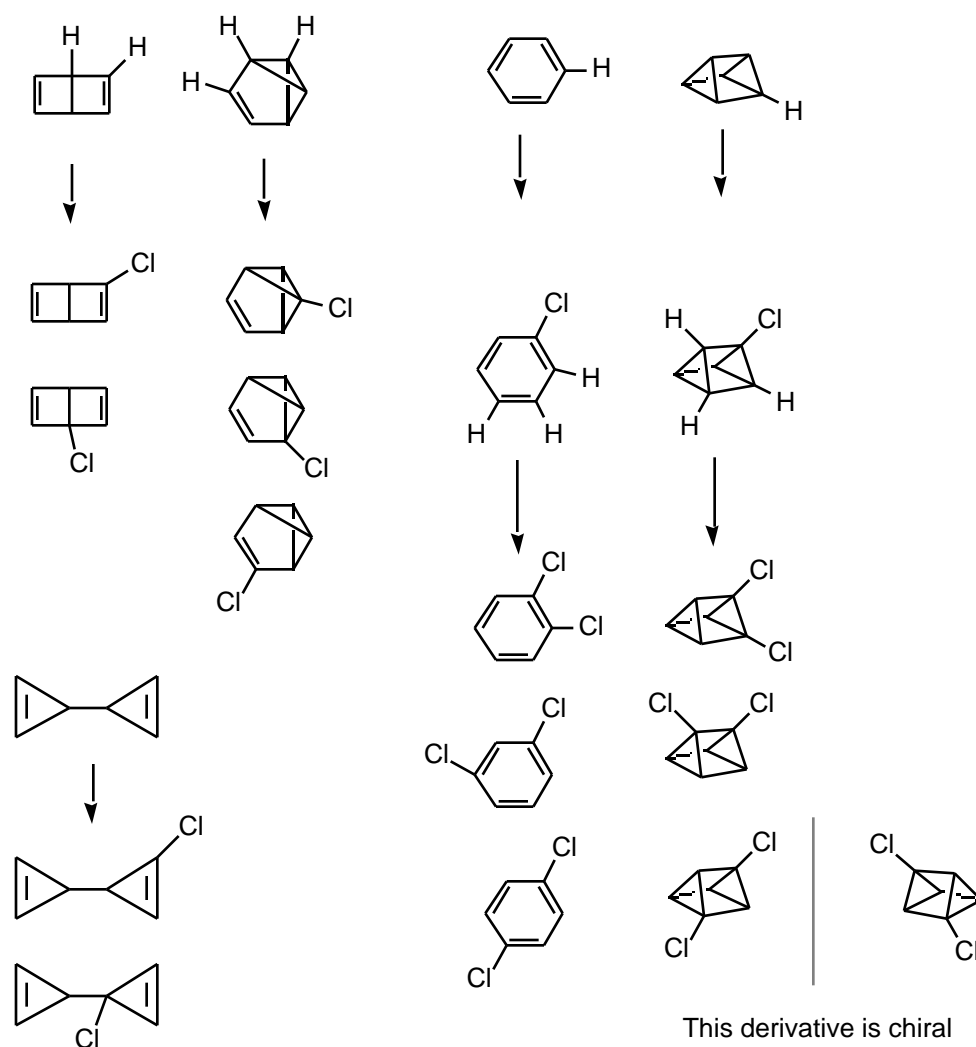
Question 4



Question 5



Question 6



From the isomer count, it can be seen that only benzene and prismane yield one mono-chloro structure. This would differentiate benzene and prismane from benzvalene, Dewar benzene, and the bis-cyclopropene. Prismane and benzene also both yield three di-chloro benzenes. However, one of the prismane di-chloro isomers is chiral and yields enantiomers.

For full credit - you only had to recognize that the isomer count is solved by seeing how many different isomers could be produced.