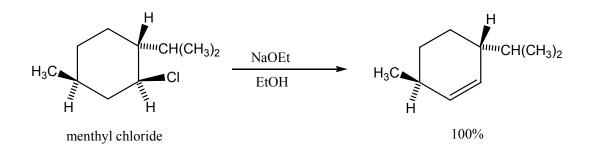
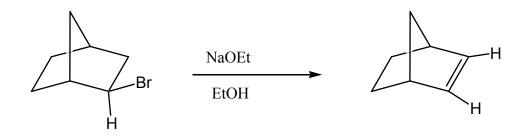
Problem Set 6

- 1. 0.01 M CH₃CH₂CH₂CH₂Br reacts with 0.01 M NaCN in ethanol to yield primarily CH₃CH₂CH₂CH₂CN, while 0.01 M (CH₃)₃CBr reacts under the same conditions to give primarily (CH₃)₃COCH₂CH₃. Explain concisely.
- 2. Explain the following observation. Why is there only the one product?



3. Why is the Saytzeff product not formed in the following reaction?



4. Provide a reasonable mechanism to explain the following observation.

