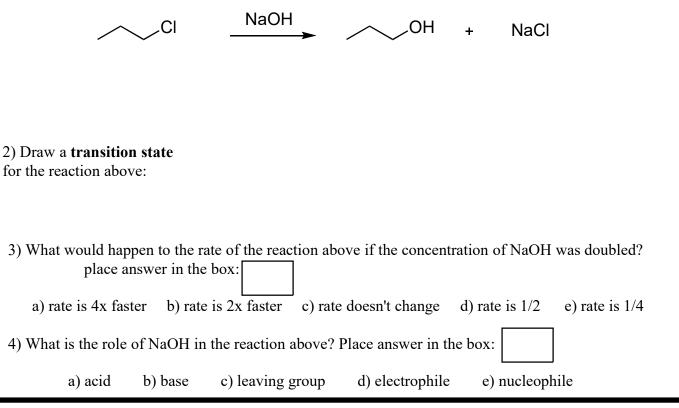
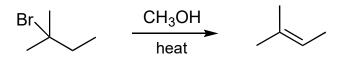
5A) (14 pts) 1) Provide a <u>complete</u> mechanism for the following $S_N 2$ substitution reaction. Pay close attention to details (lone pairs, formal charges and the use of curved arrows).



5B) (6 pts) Provide a <u>complete</u> mechanism for the following elimination reaction. Pay close attention to details including lone pairs, formal charges and the use of curved arrows.



5C) (6 pts) Synthesize the following target molecule by nucleophilic substitution. Provide a suitable starting material and any necessary reagents needed.

