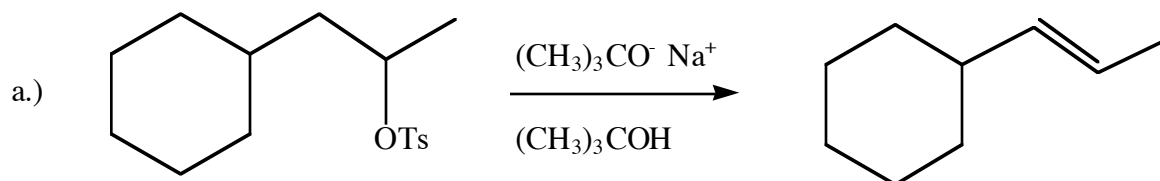
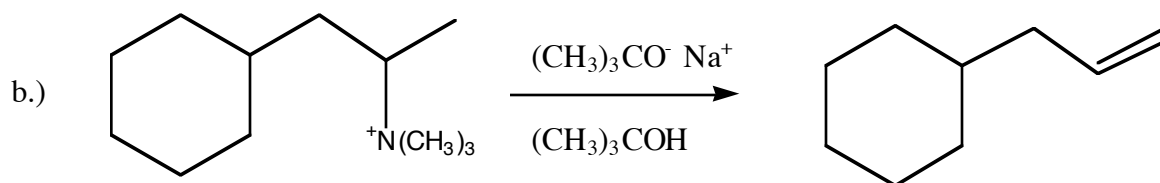


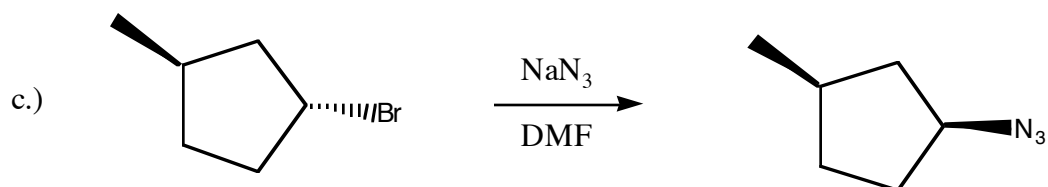
Answers to Problem 66, Chemistry 301X - 2006



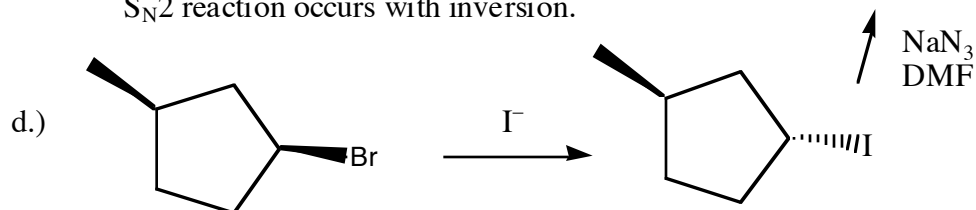
Use of tosylate leaving group favors Saytzeff elimination in E2 reaction.



Use of a large leaving group favors Hofmann elimination in E2 reaction.



$\text{S}_{\text{N}}2$ reaction occurs with inversion.



Here we need a double inversion to attain the designated retention. A Finkelstein reaction does the trick.