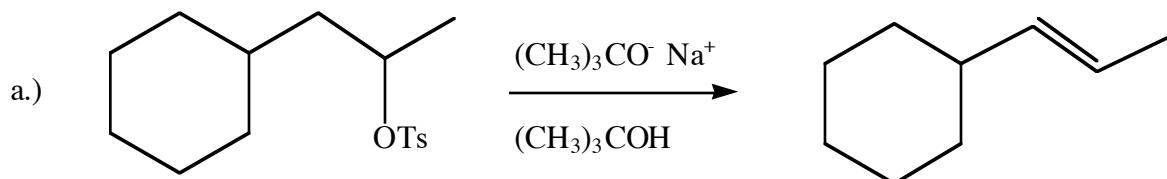
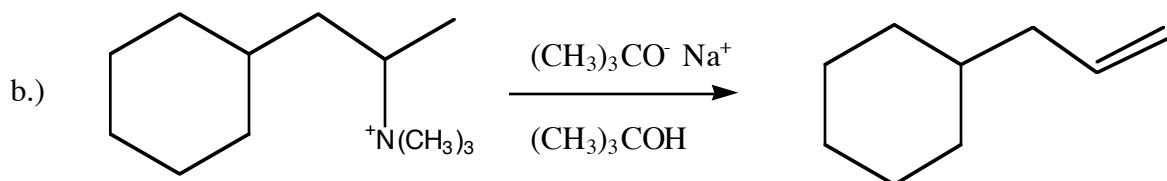


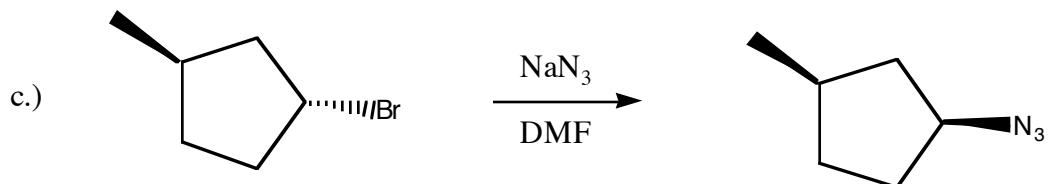
Answers to Problem 66, Chemistry 301X - 2006



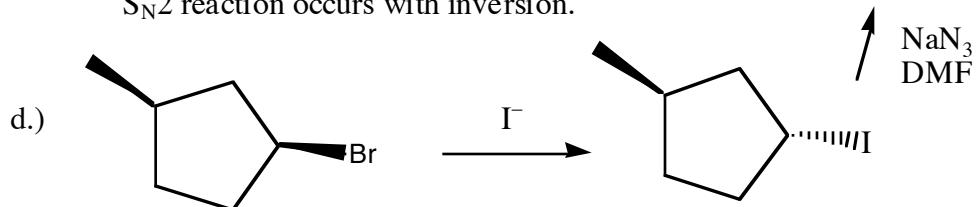
Use of tosylate leaving group favors Saytzeff elimination in E2 reaction.



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



$S_N2$  reaction occurs with inversion.



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