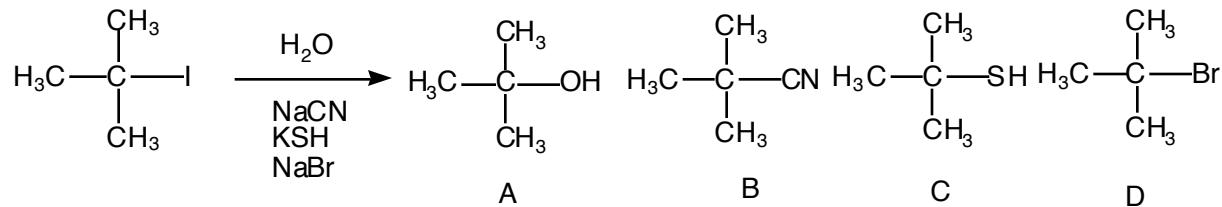
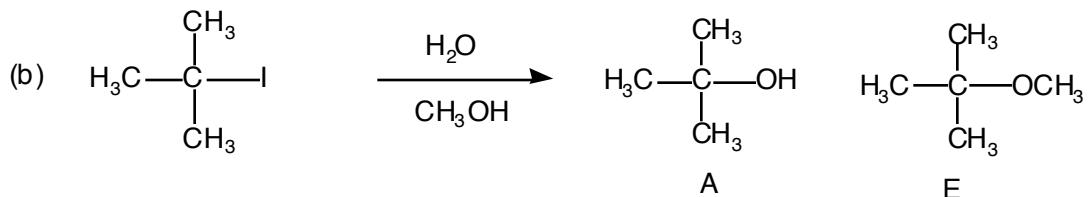
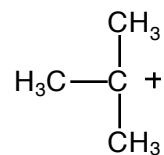


Answers to Problem 53, Chemistry 301X - 2006, p1

(a)



each available nucleophile captures the intermediate carbocation:



Both water and methyl alcohol; capture the tertiary carbocation. Note the two-step mechanism here and in A above.

