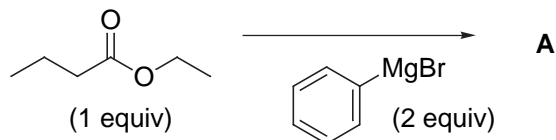
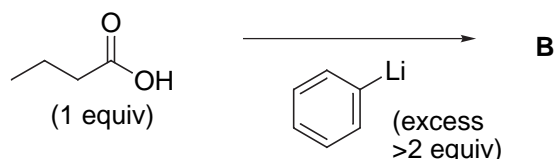


Chem 331, PS#9

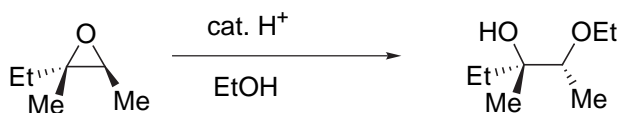
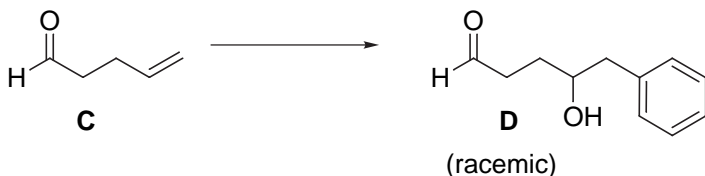
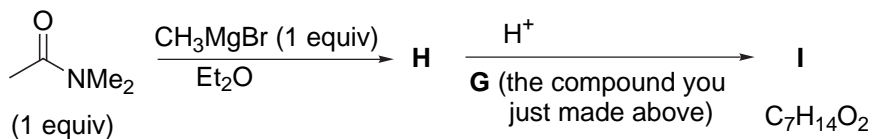
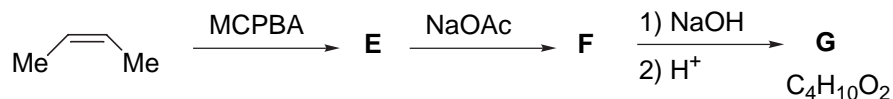
due Mon, Nov 18, 2002

use extra paper (use a staple or paper clip)

Name _____

1) Draw the structure of **A** and provide detailed arrow pushing mechanisms for its formation.2) Draw the structure of **B** and provide detailed arrow pushing mechanisms for its formation. Explain why **A** [your answer from question 1] is not formed instead.

3) Propose a mechanism. Pay attention to stereochemical detail

4) Propose a multistep synthesis of **D** using **C** as a starting material.5) Deduce the structures of **E–I****¹H NMR spectrum of I**

3.38 (m, 2H)
1.28 (s, 6H)
1.15 (d, 6H, J=5.9 Hz)