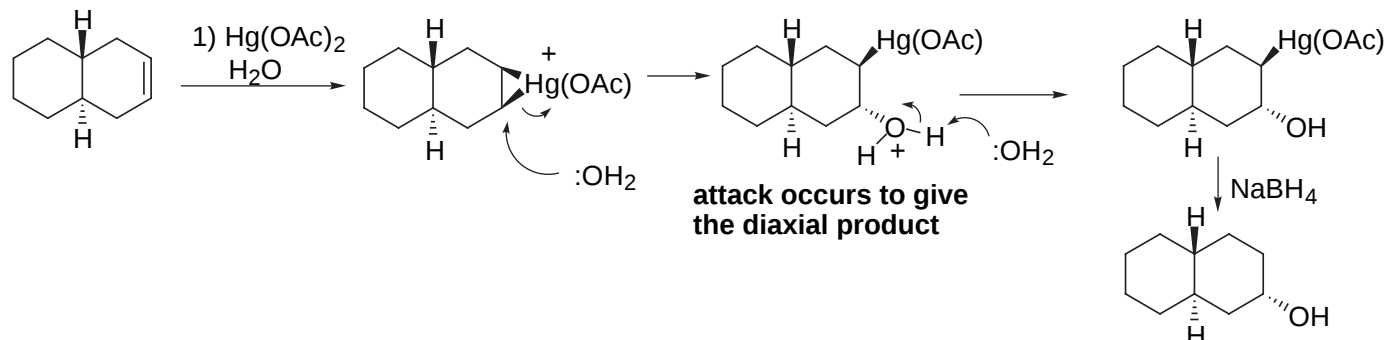
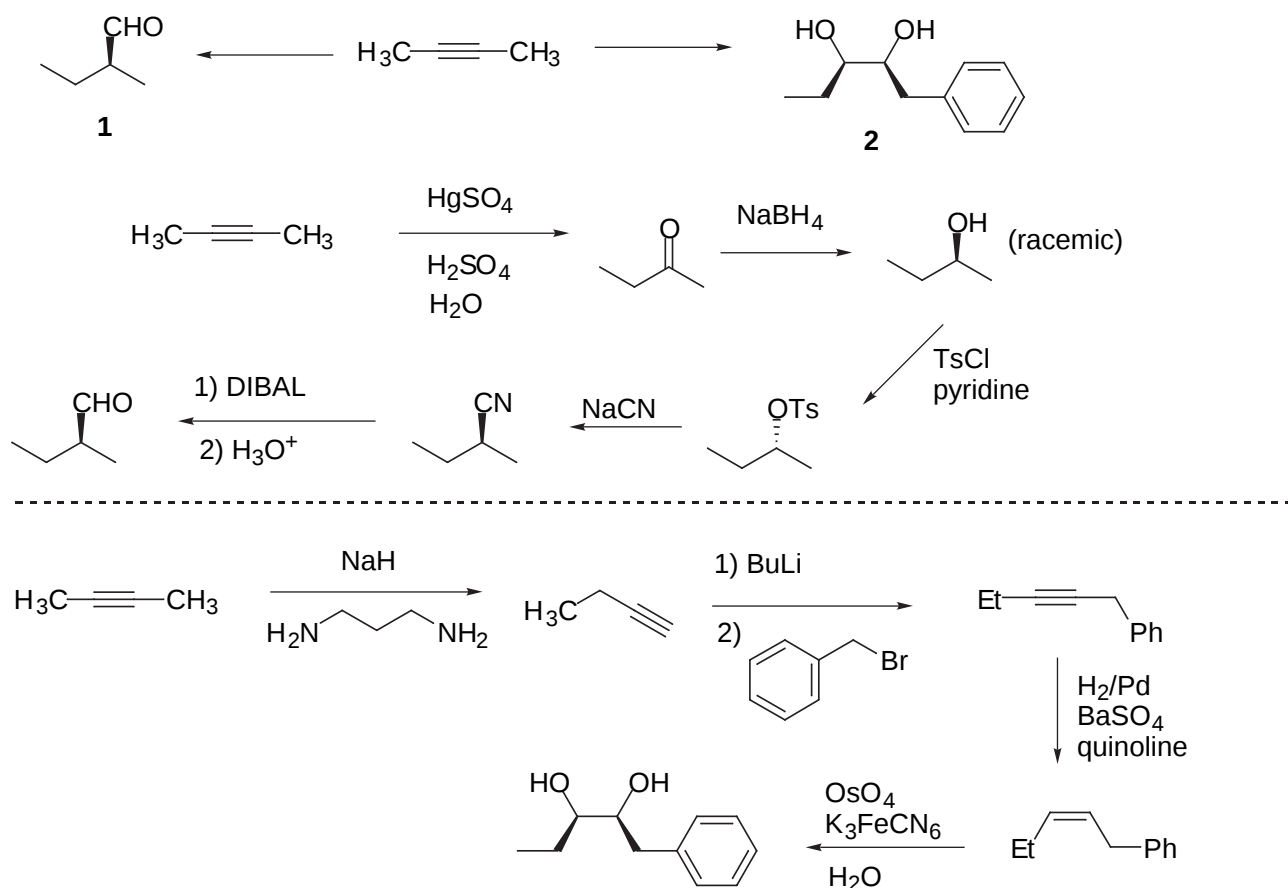


Chem 334, Professor Fox
 Problem Set #2 Use additional paper
 Due Wednesday February 26, 2003

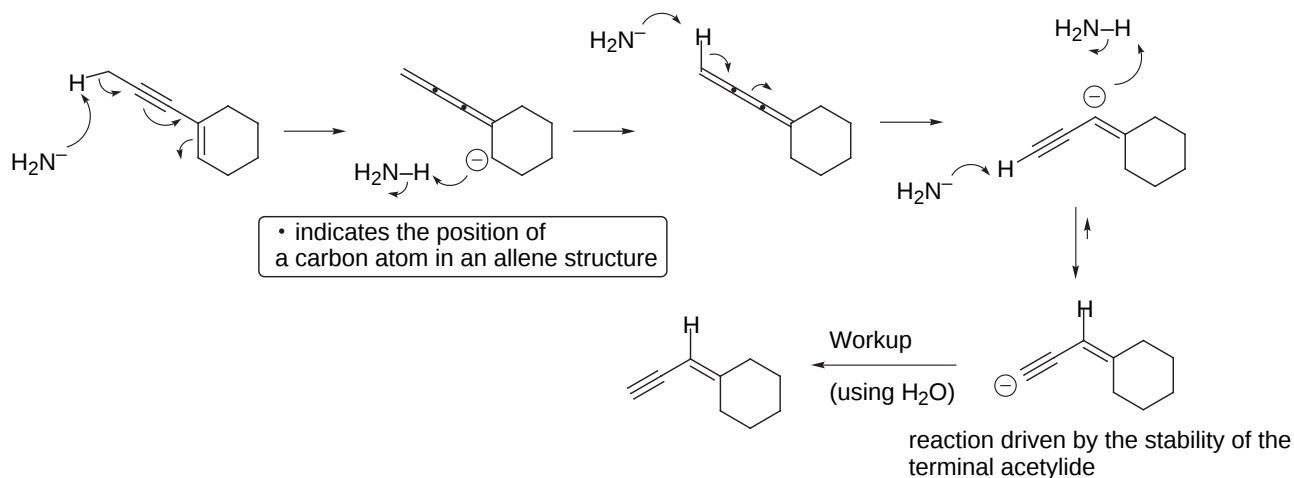
1. Predict the product, and explain the stereochemical outcome



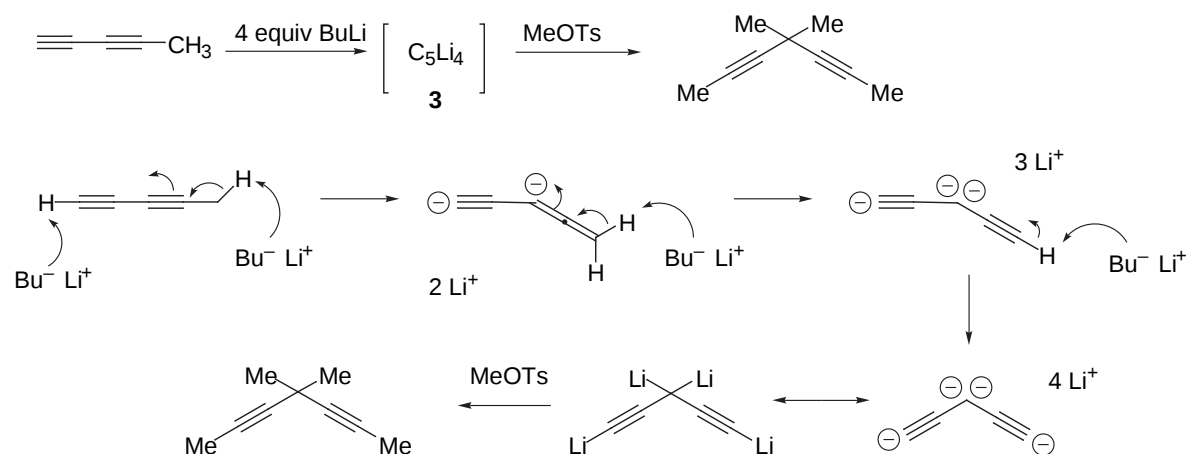
2. Provide multistep syntheses of **1** and **2**, using 2-butyne and any other starting materials



3. Provide a mechanism



4. Provide a mechanism, and propose a structure for intermediate **3**



5. Provide a structure and a mechanism for the formation of **4**

