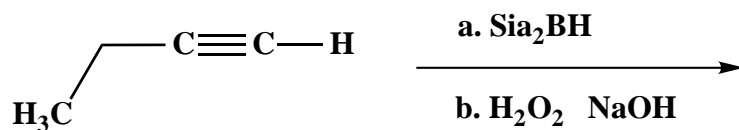


Fall 1997 Take-Home Quiz

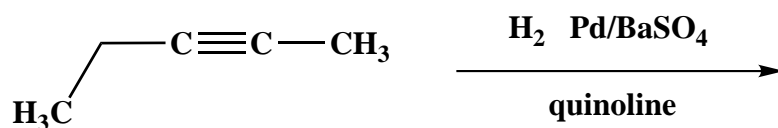
1. (10 points)

For each of the following two (2) questions draw the structure of the expected major product.

A.

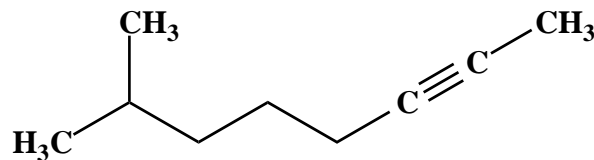


B.



2. (10 points)

Use the IUPAC nomenclature rules to name the following compound systematically.



(over)

3. (30 points)

Use a retrosynthetic scheme to design a synthesis of the racemic epoxide **1** from acetylene, mono- or difunctional organic compounds which contain five carbons or less, and any inorganic reagents. Draw clearly **all** reagents and isolable synthetic intermediate products. (**N.B.** Do not draw mechanisms for each synthetic transformation!)

