

**ANDREANA GROUP MEETING – 05/26/2018**

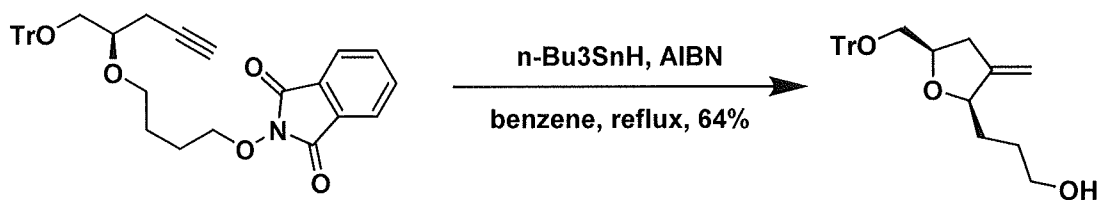
**Credit: Fukuyama Group website**

**Problem Sets for Pradheep and Kleski**

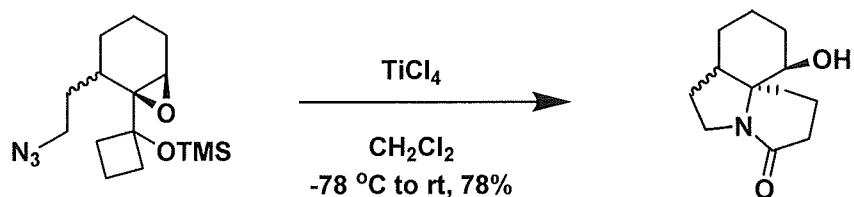
Provide mechanisms for all the transformations

Please choose one problem from each page

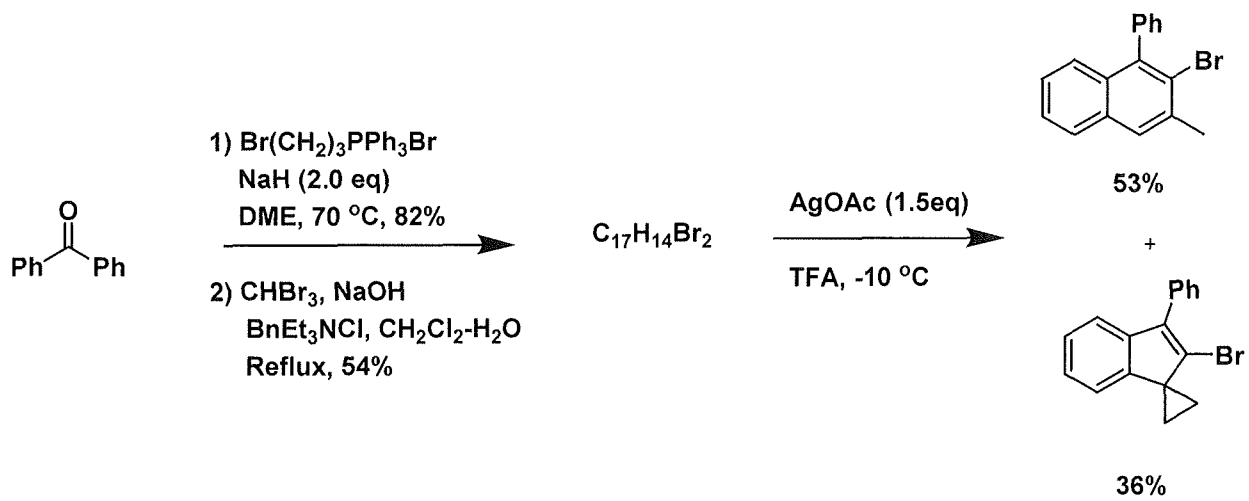
1) G. M. Sammins et al., *Org. Lett.*, DOI: 10.1021/ol900481e



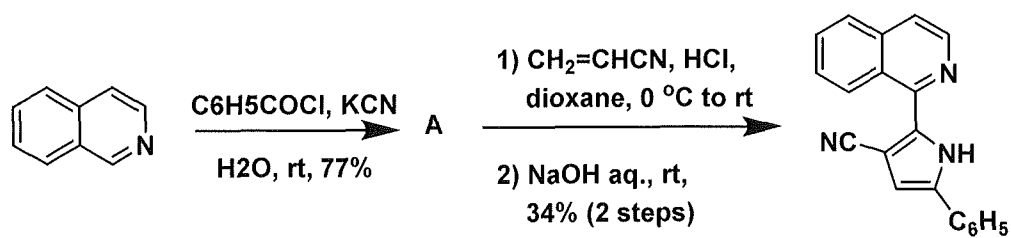
2) T. Q. Tu et al., *Org. Lett.*, 8, 5271 (2006)

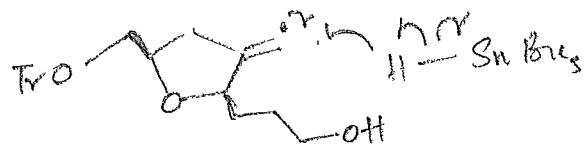
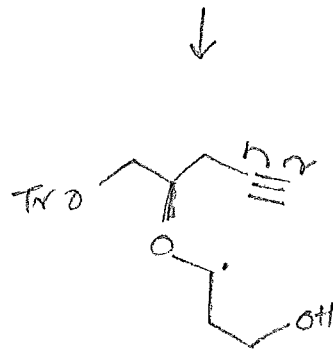
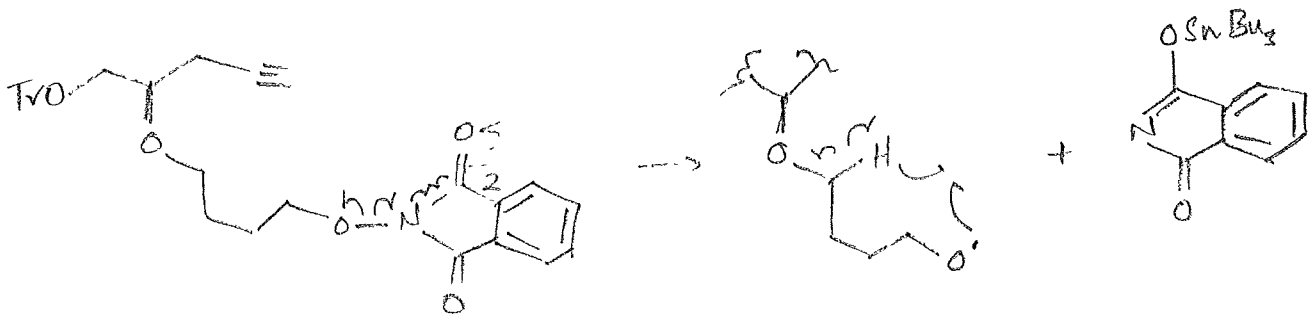
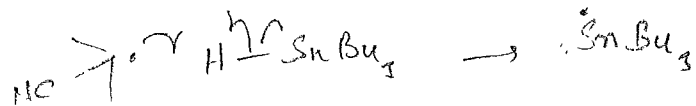
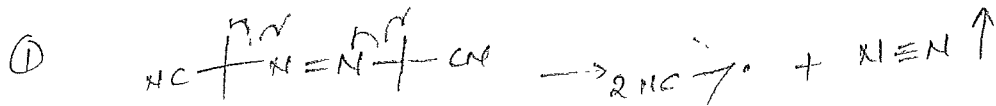


- 3) M. Murakami et al., *J. Am. Chem. Soc.*, 129, 12596 (2007)  
 M. Shi et al., *Tetrahedron Lett.*, 50, 1636 (2009)

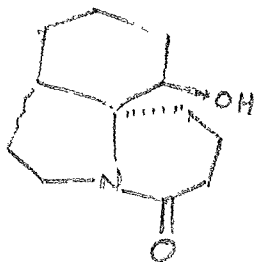
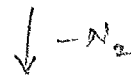
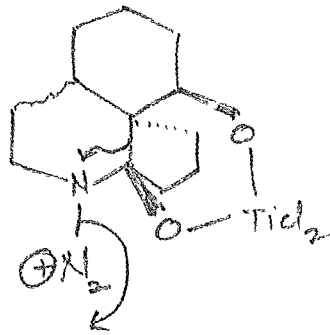
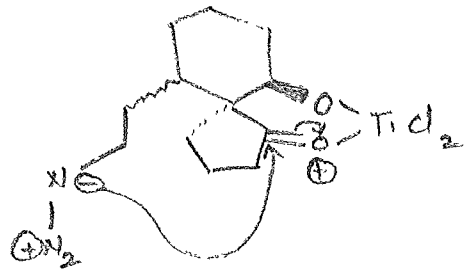
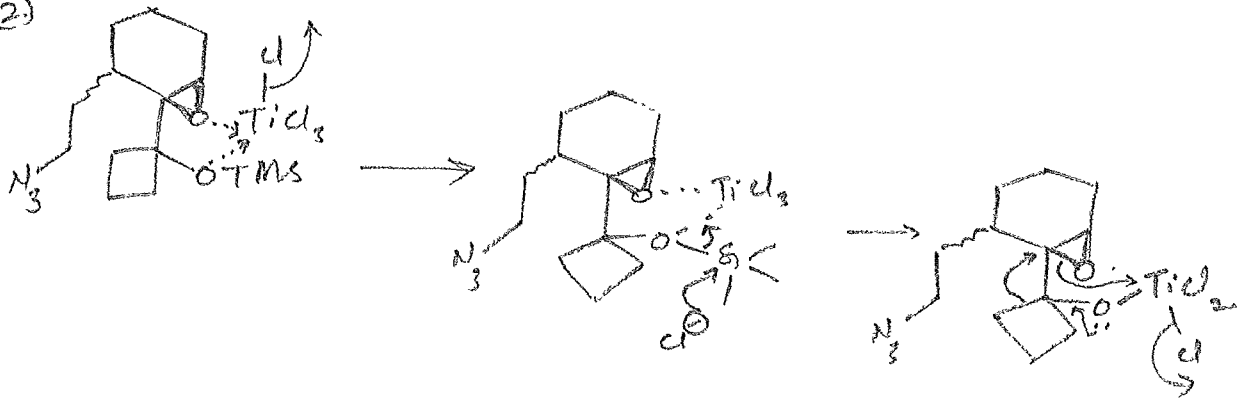


- 4) W. E. McEwen et al., *J. Org. Chem.*, 31, 4110 (1966)

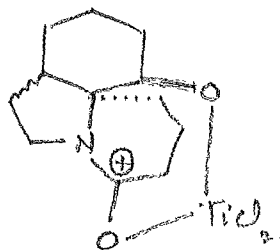


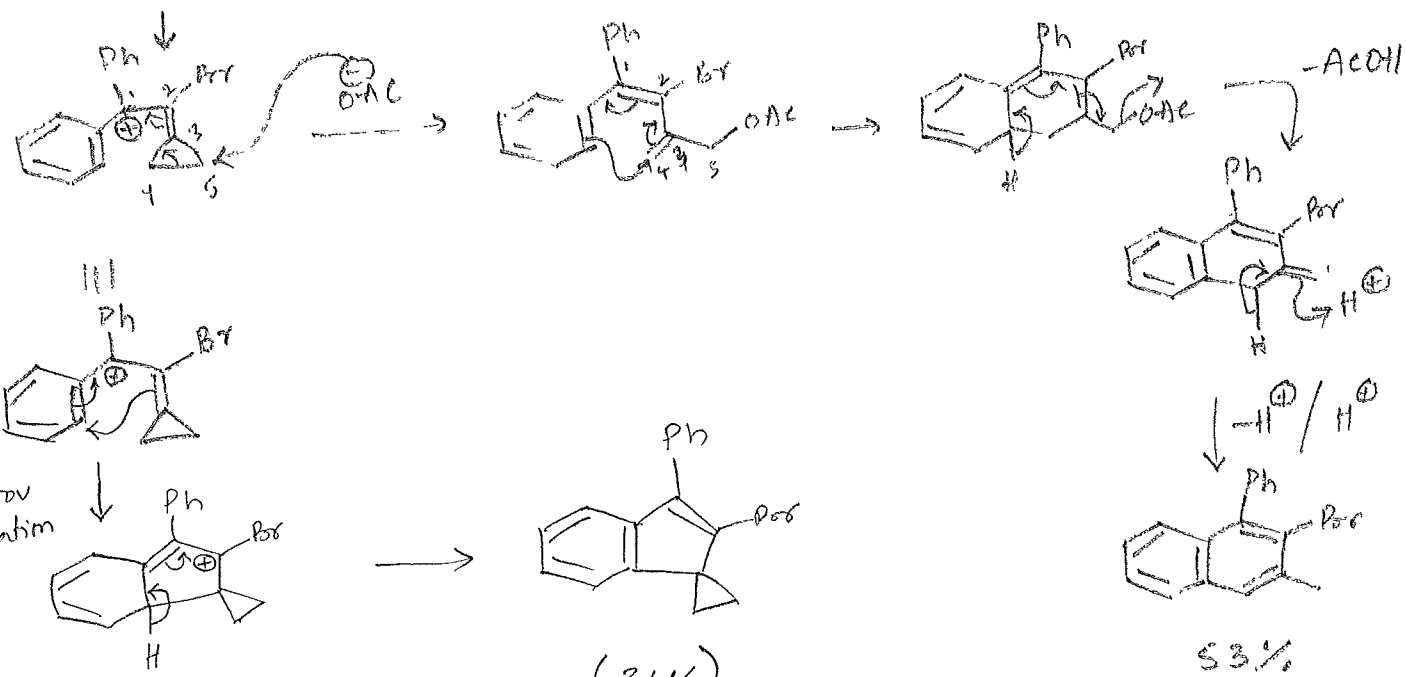
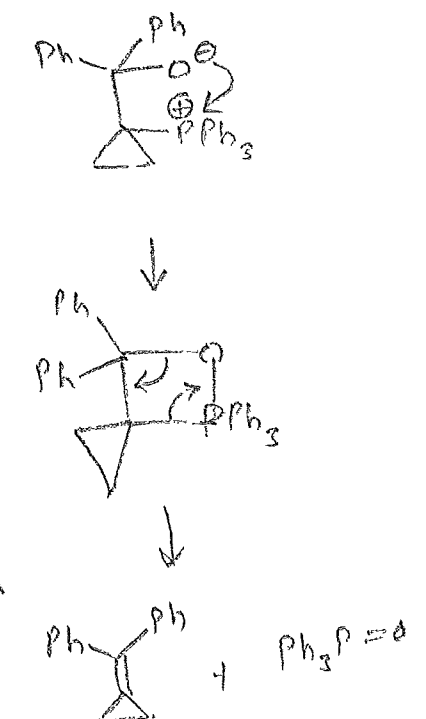
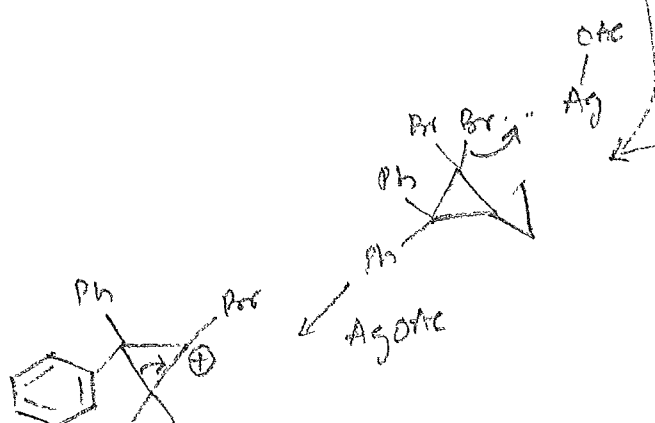
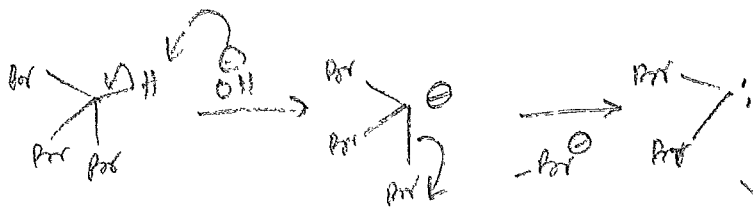
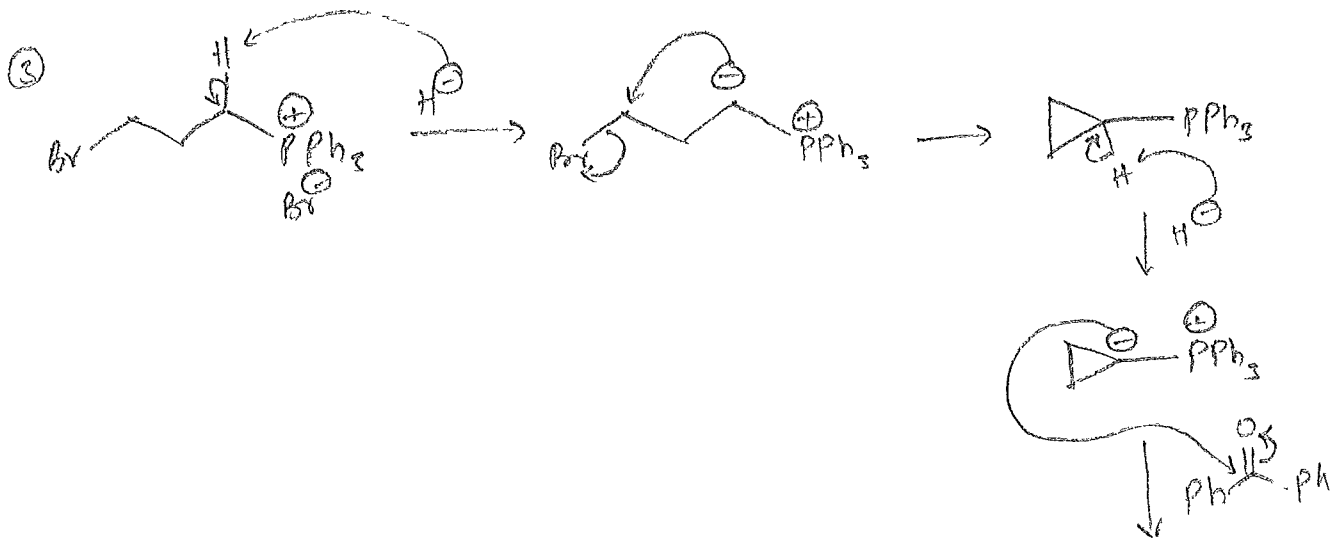


②



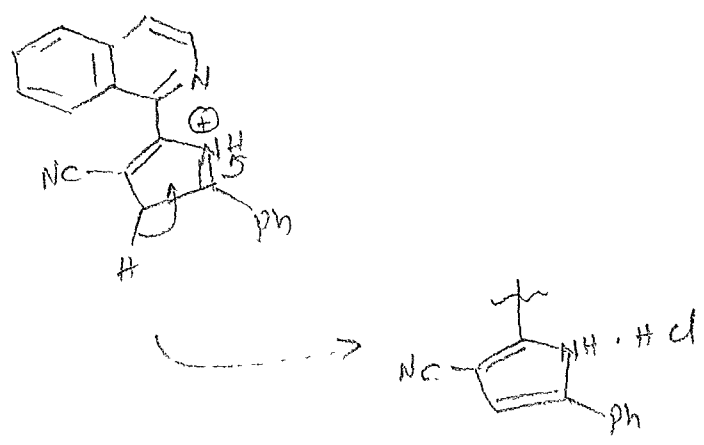
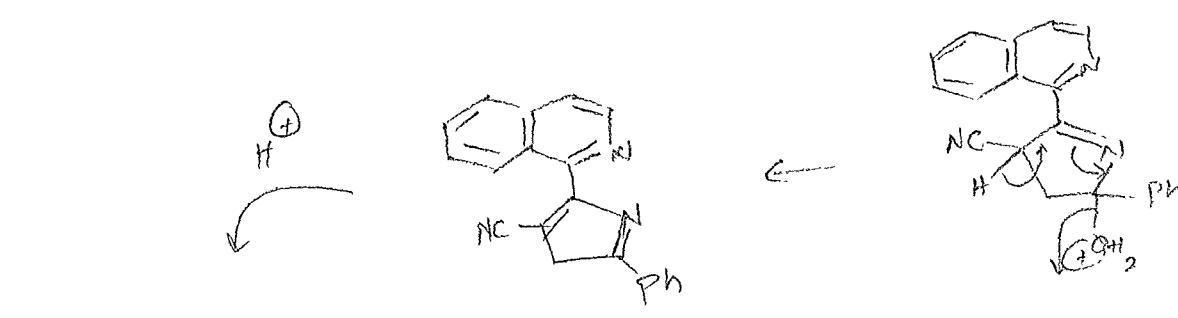
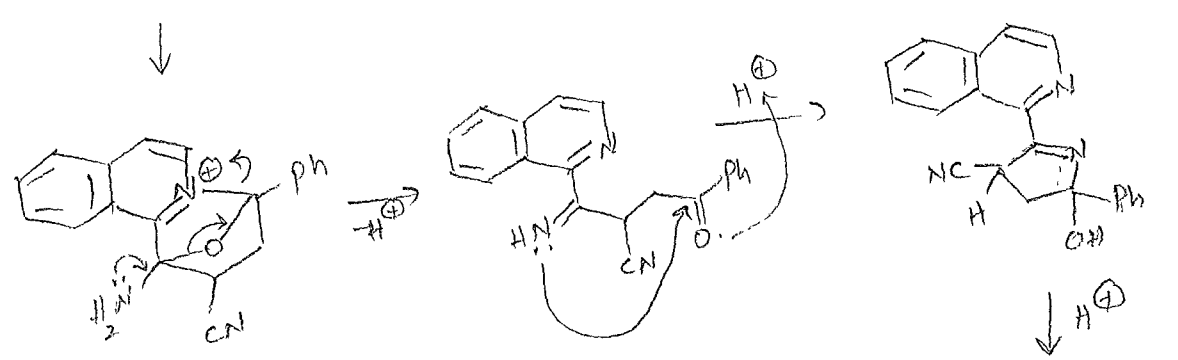
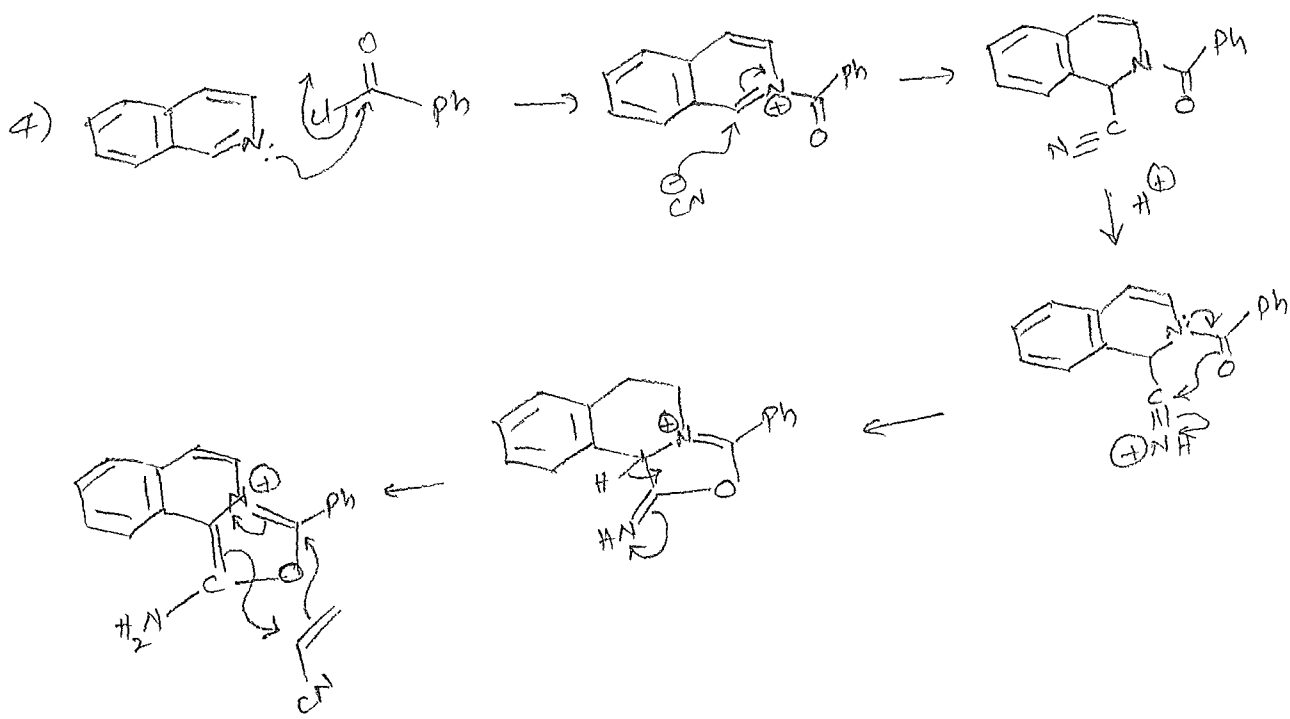
workup





(36%)

53%



OH<sup>-</sup> → product