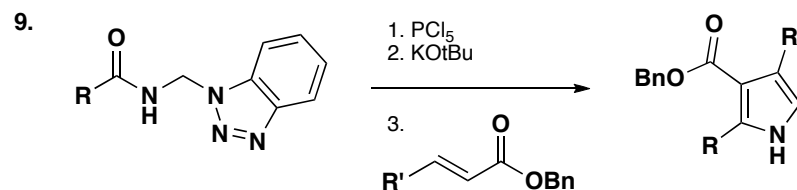
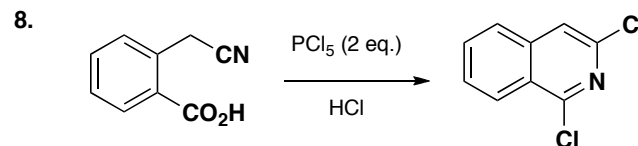
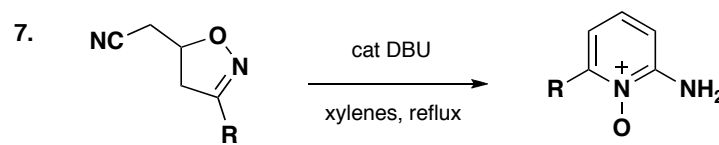
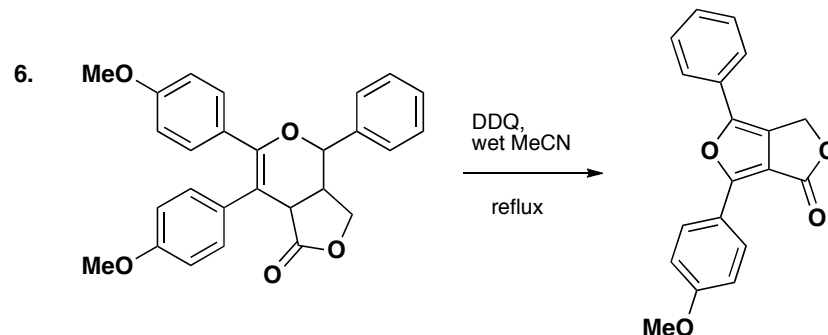
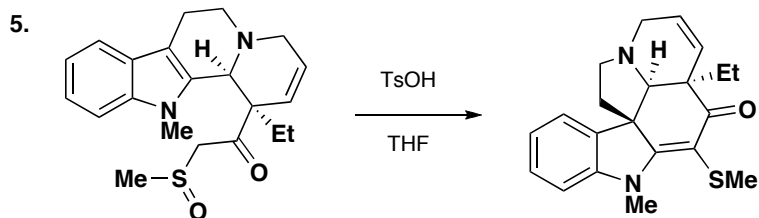
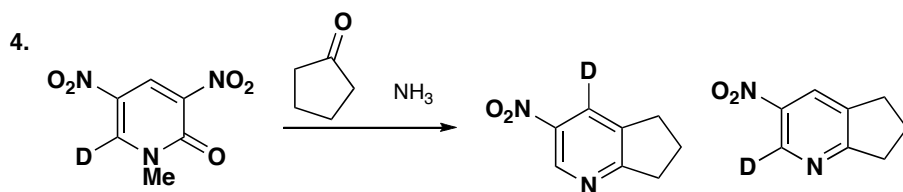
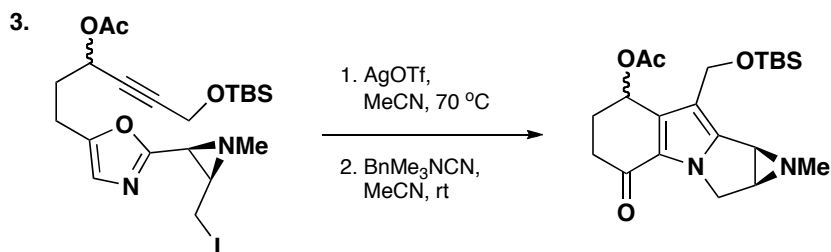
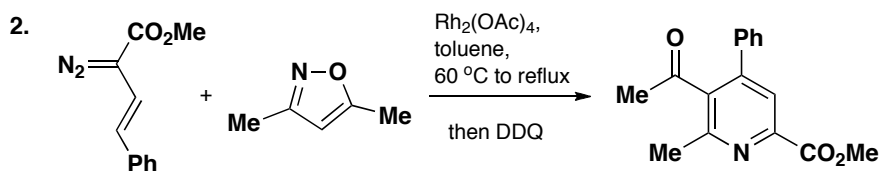
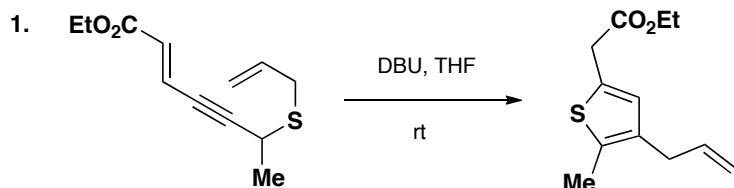


Due Date: April 22nd 2011

Provide reasonable mechanisms for the following transformations. (5 points each)



10. During class, the possibility of a pyrimidine variant of Zincke's salt was brought up. Thinking mechanistically, comment on whether this reaction will or will not work. (This is an open-ended question, but you will need to provide your thoughts on the possible intermediates that could be formed.)

Provide simple syntheses for the following compounds. (10 points each)
(You may use only ONE cross-coupling reaction (Pd or similar metals) throughout the ten syntheses in this section, so please use it wisely.)

