

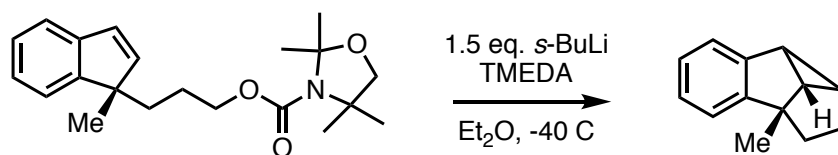
Cumulative Examination  
Organic Chemistry

January 18, 2018

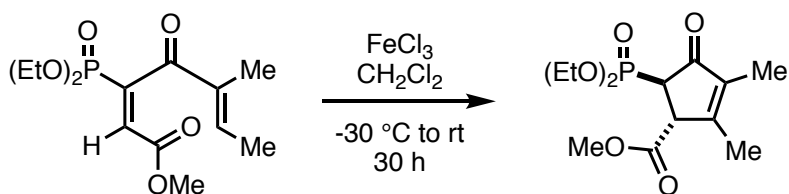
D. J. Wardrop

**Attempt All Questions (100 Total Points)**

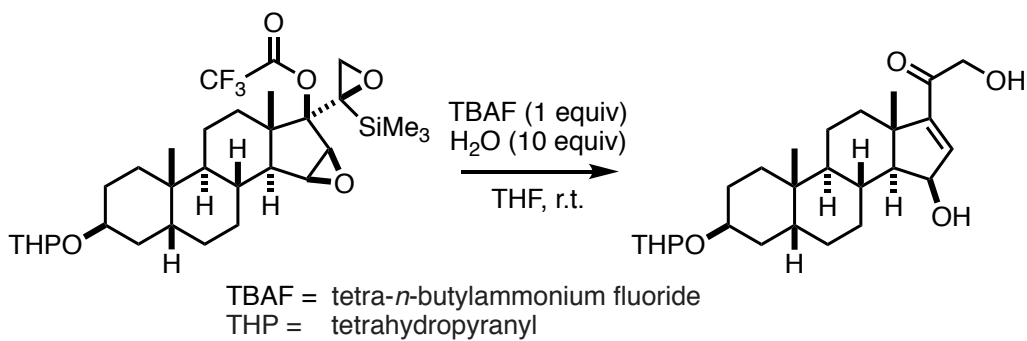
Draw reasonable arrow-pushing mechanisms for the following transformations



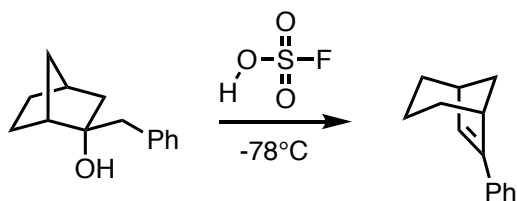
20 Points



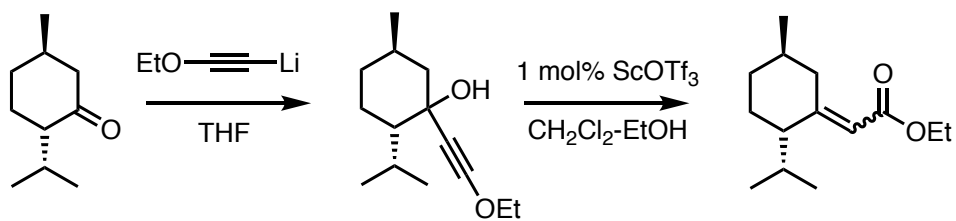
20 Points



20 Points



20 Points



20 Points

100 Total Points