



## CHEM 8410\_6410\_4410 – Organic Synthesis

THE UNIVERSITY OF  
**TOLEDO**  
1872

**Quiz #4 of 5**

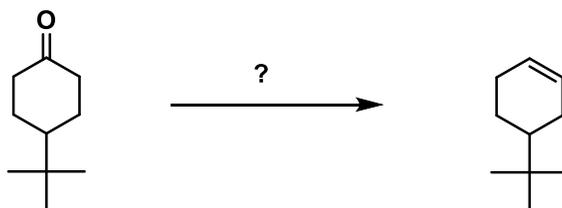
**10 PTS**

**Instructor:** Prof. Andreana  
**Room #:** FH 2030

**Your Name:** \_\_\_\_\_

**Student Number:** \_\_\_\_\_

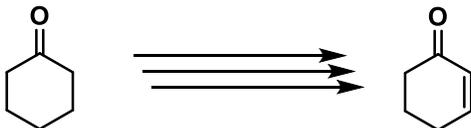
1) Provide the reagents that lead to the tert-butyl substituted olefin. Furthermore, provide the mechanism of action. **4 PTS**



**Answer:**



2) Please provide the reagents necessary to synthesize the Michael acceptor. **3 PTS**



**Answer:**

3) In question 2), you should have used a reagent or series of reagents that allow for a particular type of elimination. What type of elimination occurred? Please draw a mechanism that clearly shows the elimination properly. **4 PTS**

**Answer:**