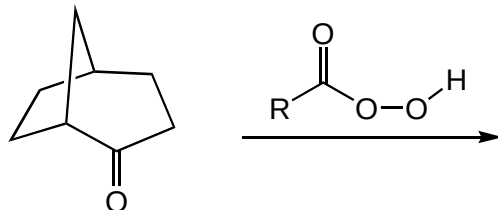
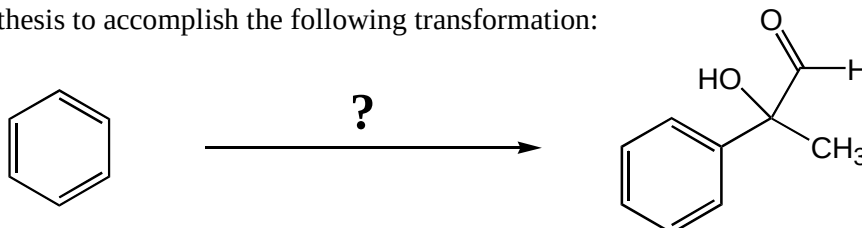


Organic Chemistry c3444y
Problem Set 5 - Aldehydes and Ketones
Due in class Friday, March 5.

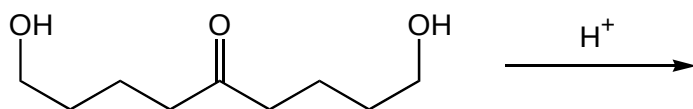
1. Write out a mechanism for, and predict the product of the following Baeyer-Villiger oxidation:



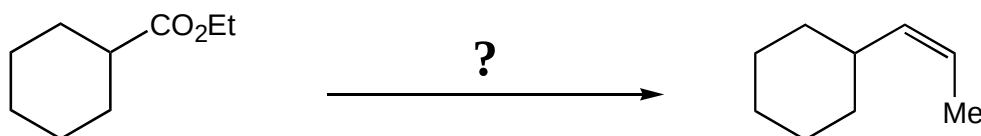
2. Propose a synthesis to accomplish the following transformation:



3. Write out a mechanism for, and predict the product of the following reaction:

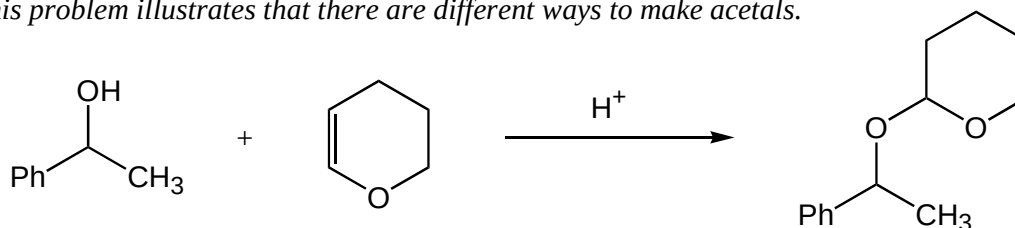


4. Propose a synthesis to accomplish the following transformation:



5. Write out a mechanism for the following transformation:

Hint: You must decide what will happen first with this combination of reagents.
This problem illustrates that there are different ways to make acetals.



6. As we said in class, imine formation is reversible, and the reverse reaction is driven by using an excess of water as well as acid. Write a mechanism for the following transformation:

