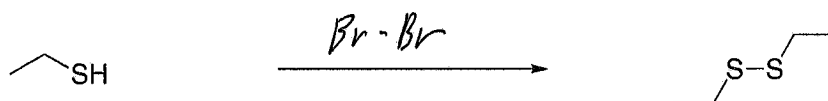
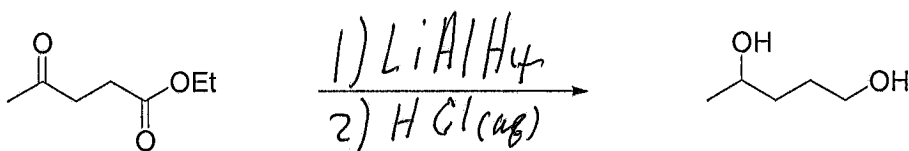


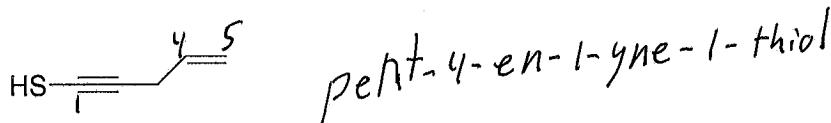
Name: Key

Organic I Lecture
Spring 2010
Quiz #9
(10 points)

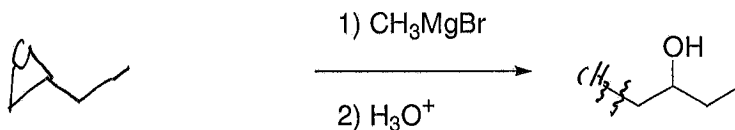
1. Complete the following reactions by filling in the necessary reagents. (4 points, problem 10-40f)



2. Provide a correct IUPAC name for the following structure. (3 points)



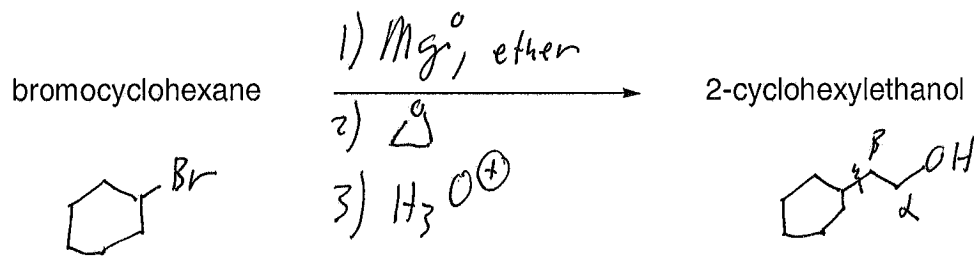
3. Draw a structure for the missing starting material for the reaction below. (3 points)



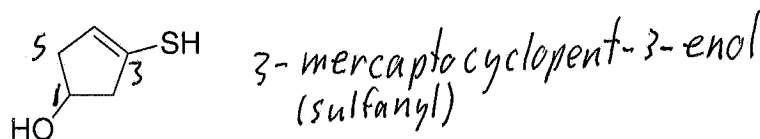
Name: Key

Organic I Lecture
Spring 2011
Quiz #9
(10 points)

1. Show how the following reaction can be completed by filling in the necessary reagents. (3 points, 10-39d)

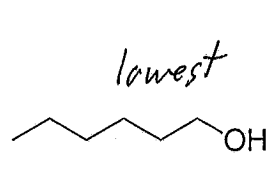
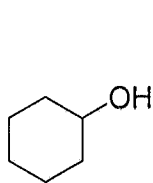
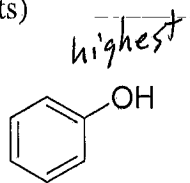


2. Provide a correct systematic name for the structure below. (3 points)



3. Which sequence ranks the following compounds in order of increasing melting point? (2 points)

Stacking &
cost to
entropy



- a) 1<2<3 b) 2<3<1 c) 3<1<2 **d) 3<2<1** e) 2<1<3 f) 1<3<2

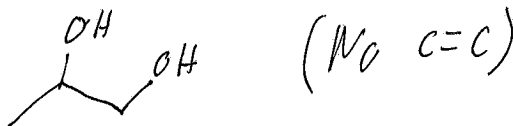
4. Complete the following reaction. (2 points)



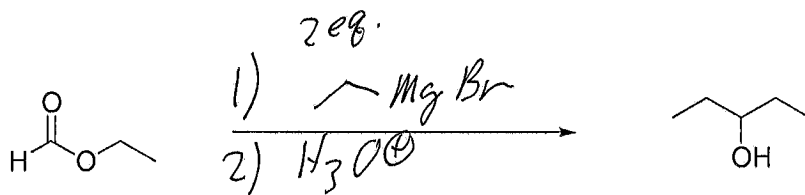
Name: Key

Organic I Lecture
Fall 2011
Quiz #9
(10 points)

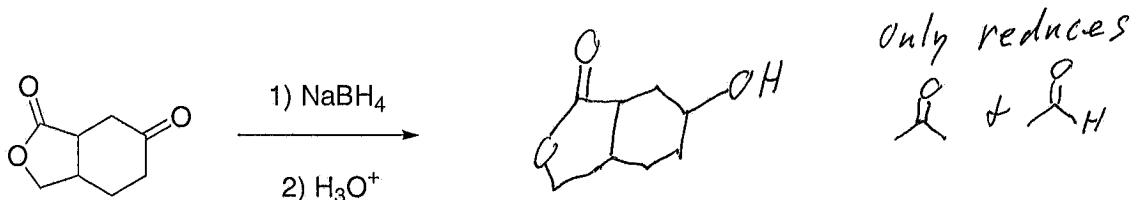
1. Provide a structure for propylene glycol. (2 points)



2. Complete the following reaction by filling in the necessary reagents. (3 points)



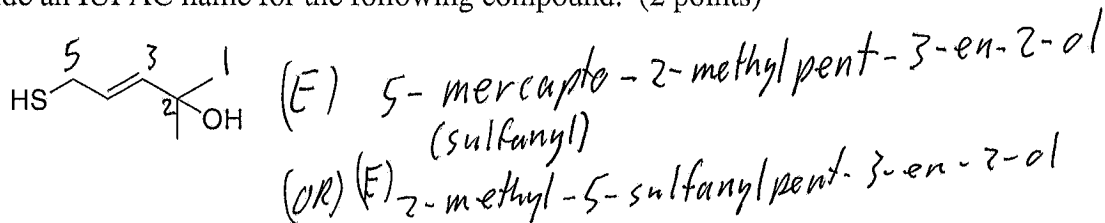
3. Predict the structure of the products of the following two reactions. (5 points)



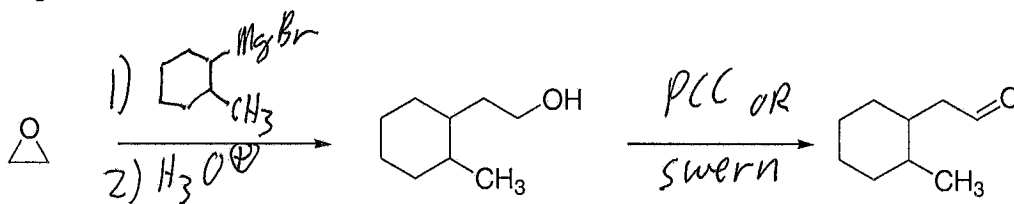
Name: Key

Organic I Lecture
Spring 2012
Quiz #9
(10 points)

1. Provide an IUPAC name for the following compound. (2 points)



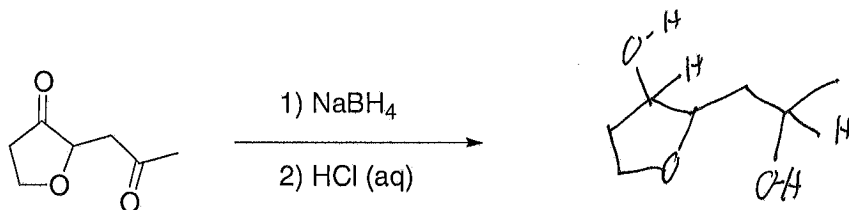
2. Complete the following conversion by filling in the necessary reagents. (4 points, problem 10-19c)



3. What is gasohol? (1 point)

10-20% ethanol/gasoline mixture

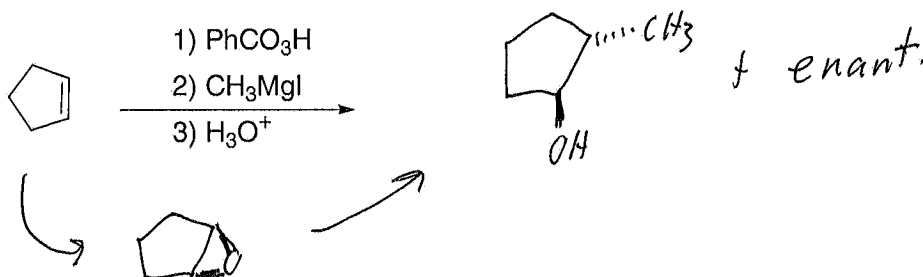
4. Predict the product of the following reaction. (3 point)



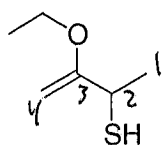
Name: Key

Organic I Lecture
Fall 2012
Quiz #9
(10 points)

1. Predict the major product of the following reaction. (3 points, see problem 10-49)

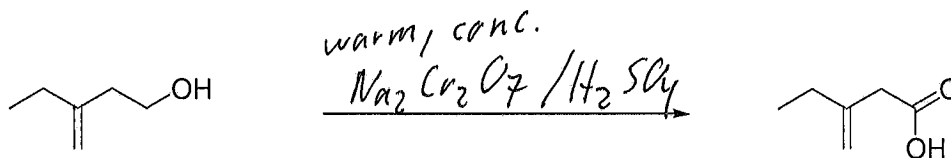


2. Provide a correct systematic name for the following compound. (2 points)

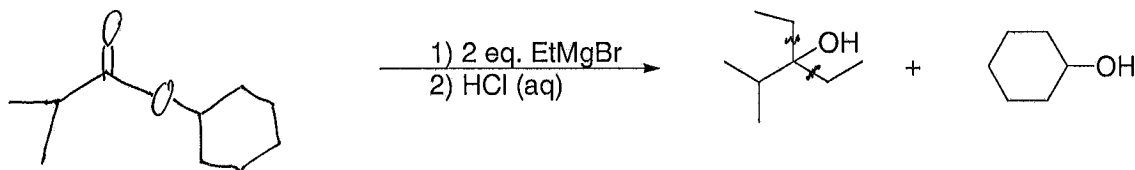


3-ethoxybut-3-ene-2-thiol

3. Complete the following reaction by filling in the necessary reagents. (2 points)



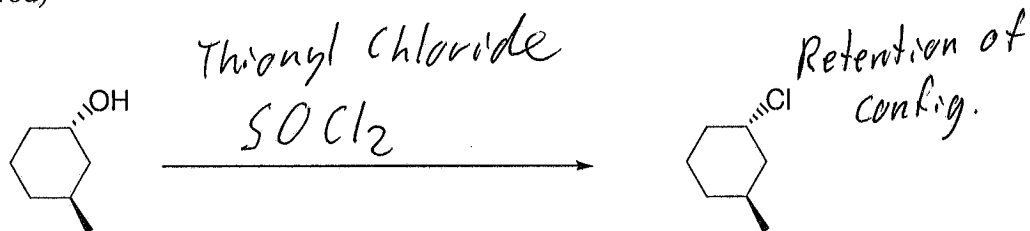
4. Draw a structure for the necessary starting material of the following reaction. (3 points)



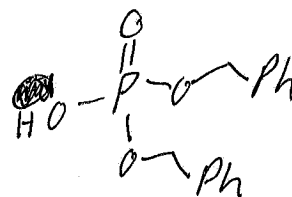
Name: Key

Organic I Lecture
Spring 2010
Quiz #10
(10 points)

1. Complete the following reactions by filling in the necessary reagent. (2 points, problem 11-48d)



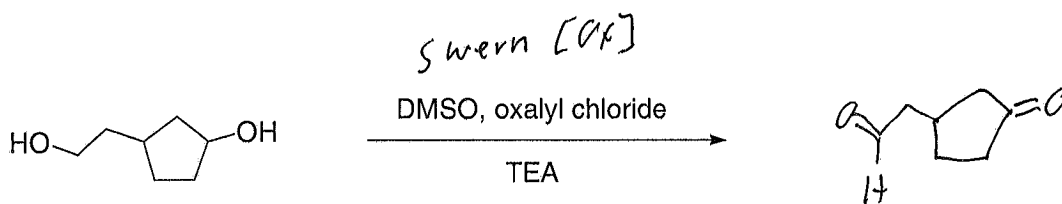
2. Draw a structure for dibenzyl phosphate. (2 points)



3. Using the Williamson ether synthesis, provide a synthesis for allyl *t*-butylether. (3 points)



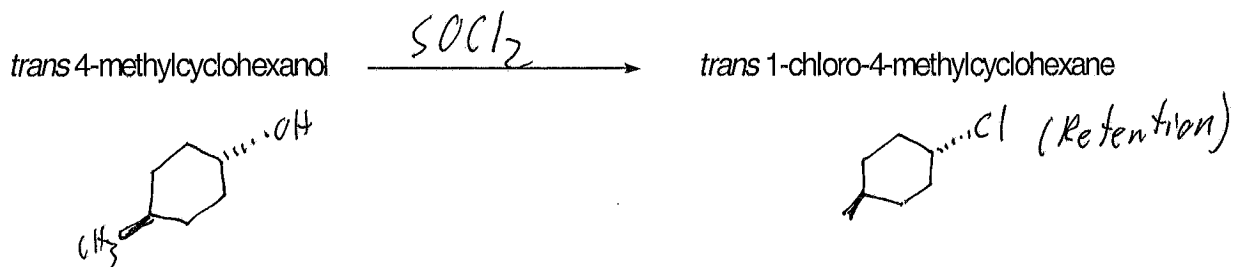
4. Provide a structure of the product expected from the reaction below. (3 points)



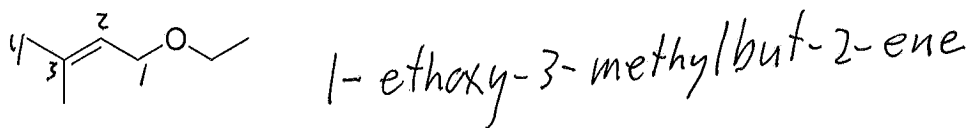
Name: Key

Organic I Lecture
Spring 2011
Quiz #10
(10 points)

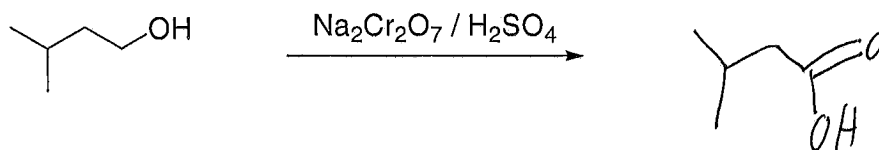
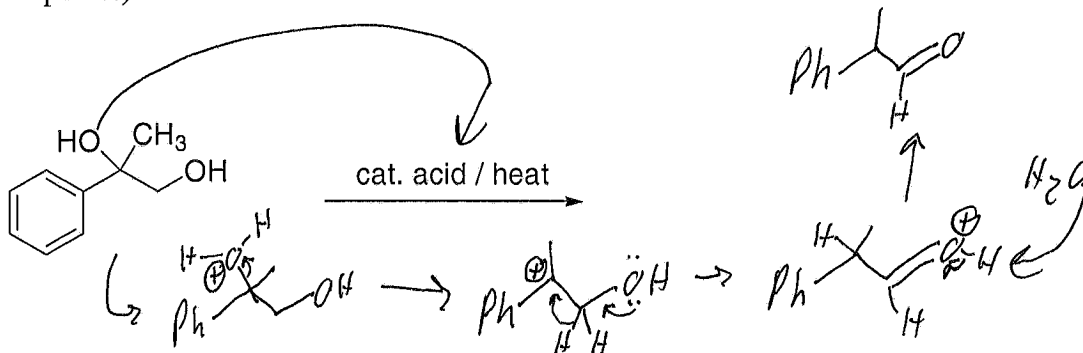
1. Show how the following reaction can be completed by filling in the necessary reagents. (2 points, problem 11-19a)



2. Provide a correct systematic name for the structure below. (3 points)



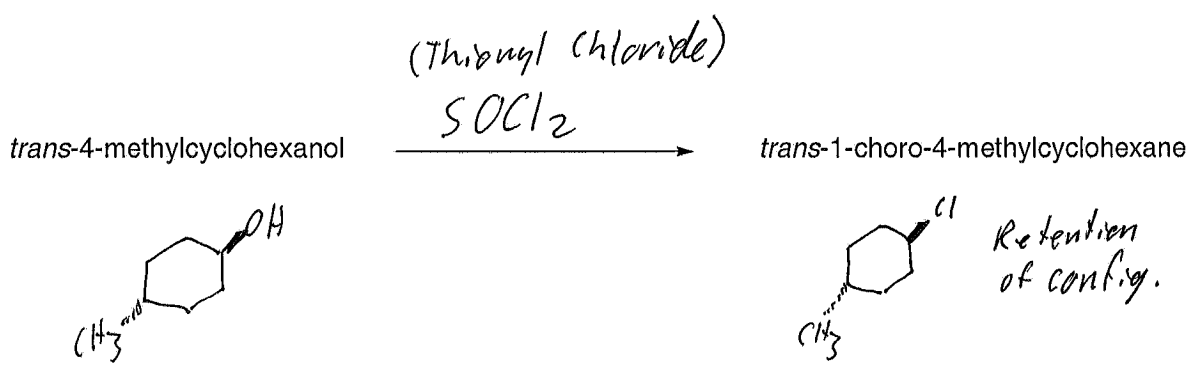
3. Complete the following reactions by drawing correct structures for each product. (5 points)



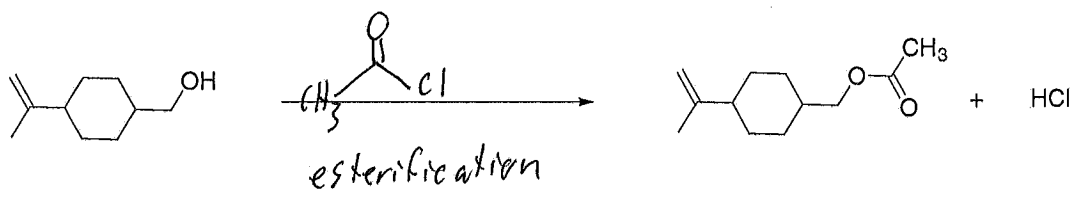
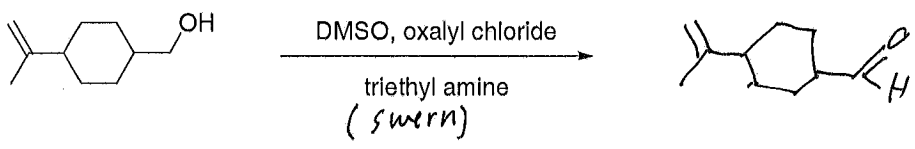
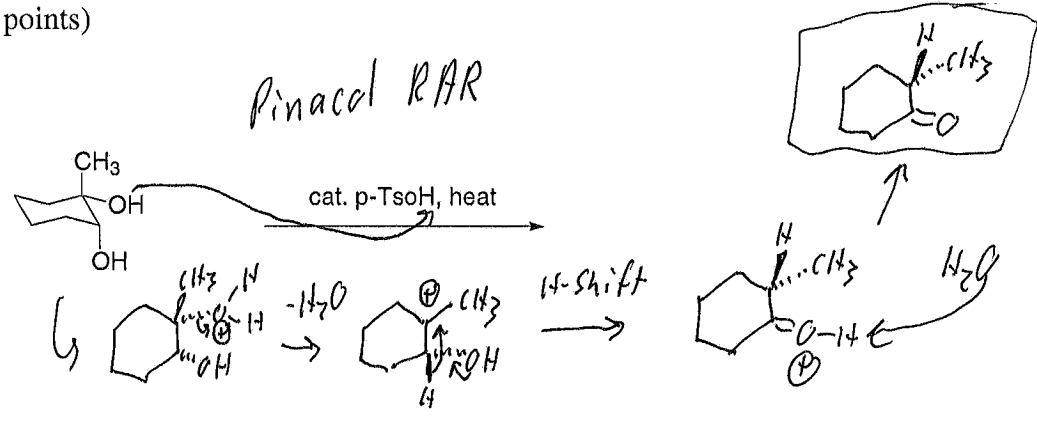
Name: Key

Organic I Lecture
Fall 2011
Quiz #10
(10 points)

1. Complete the following reaction by filling in the necessary reagents. (2 points, problem 11-19a)



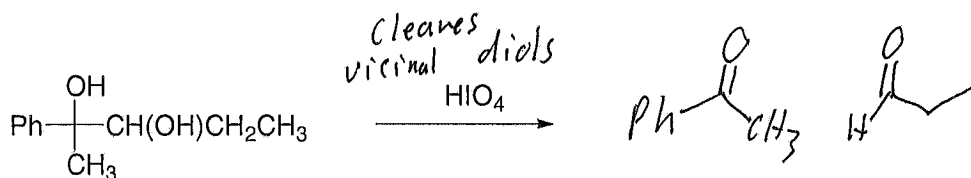
2. Complete the following reaction by filling in the missing products and reagents. (8 points)



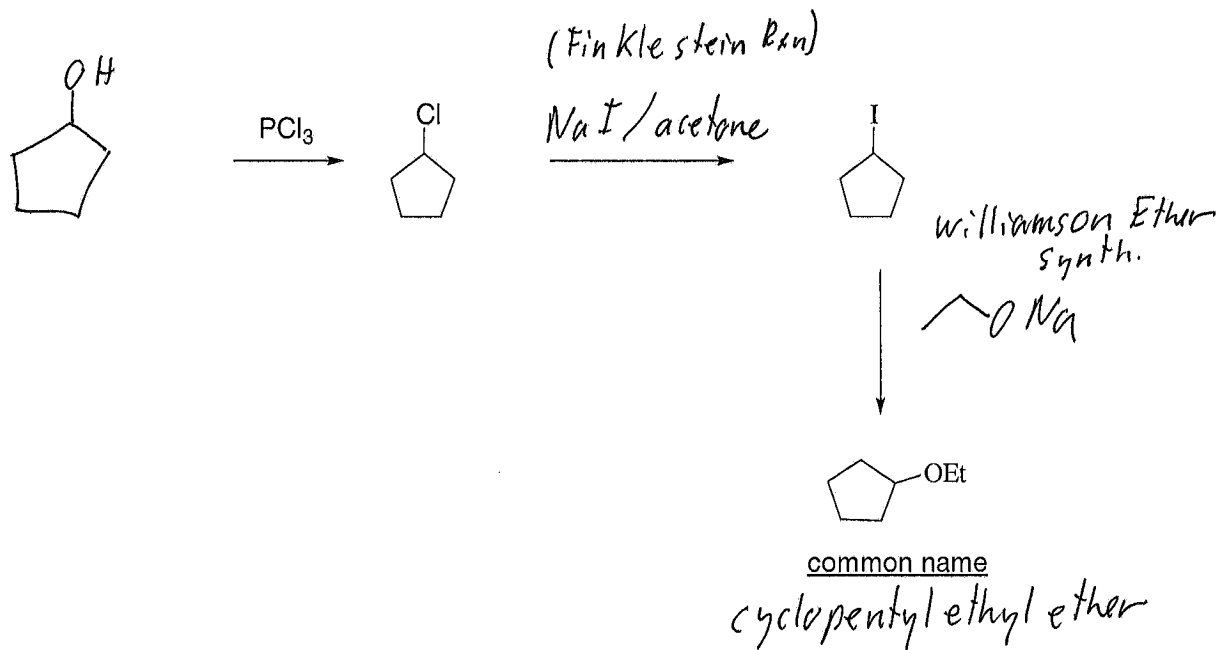
Name: Key

Organic I Lecture
Spring 2012
Quiz #10
(10 points)

1. Complete the following reaction by drawing a structure for the expected product. (2 points, problem 11-30c)



2. Complete the following series of reactions by filling in the missing starting material, reagents and common name for the final product. (8 points)



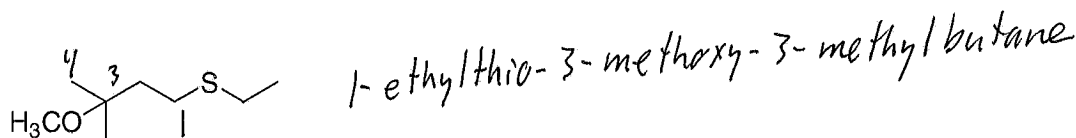
Name: Key

Organic I Lecture
Fall 2012
Quiz #11
(10 points)

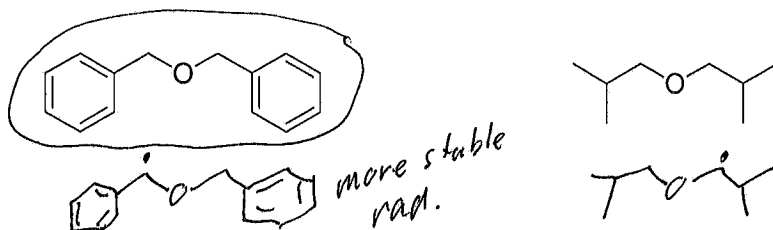
1. Show how you would use the Williamson ether synthesis to make benzyl tert-butylether. (3 points, see problem 14-9e)



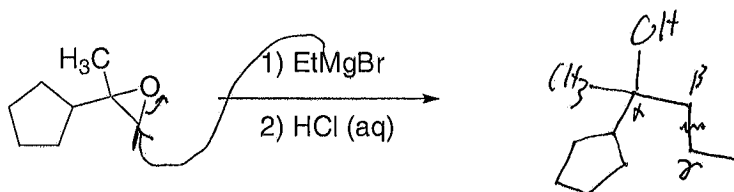
2. Provide an IUPAC name for the following compound. (2 points)



3. Circle the following ether compound that is most prone to peroxide formation. (2 points)



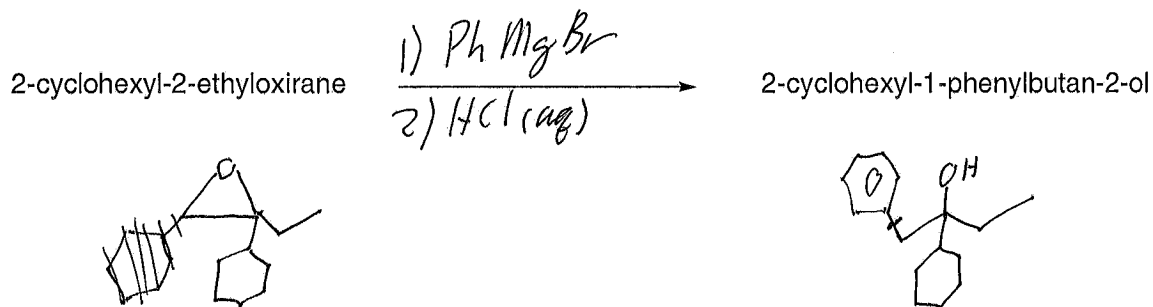
4. Complete the following reaction by drawing a structure of the expected product. (3 points)



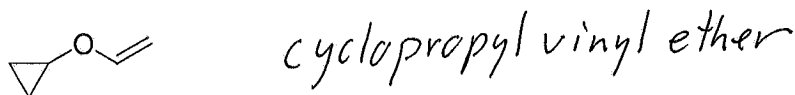
Name: Key

Organic I Lecture
Fall 2011
Quiz #11
(10 points)

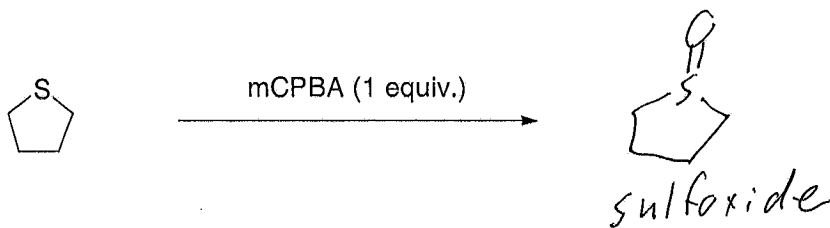
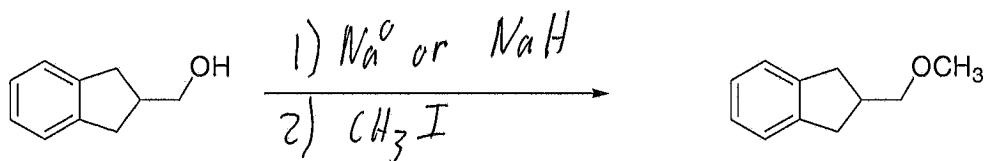
1. Complete the following reaction by filling in the necessary reagents. (3 points)



2. Provide a common name for the following structure. (2 points, problem 14-31h)



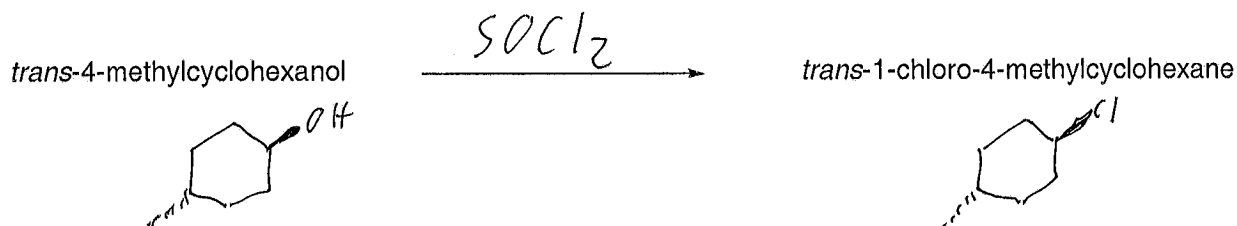
3. Complete the following reactions by filling in the missing reagents and product. (5 points)



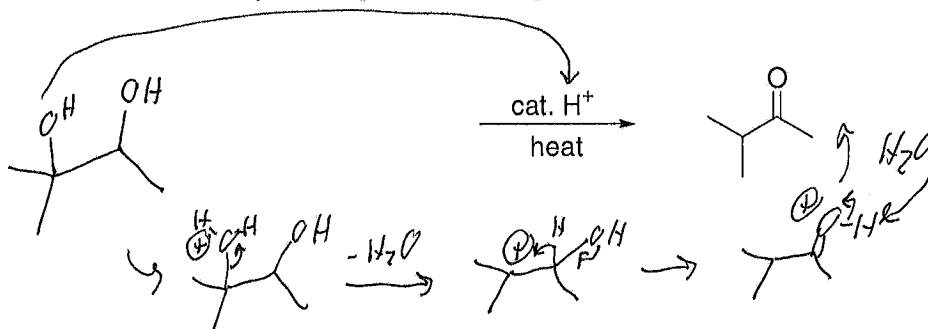
Name: Key

Organic I Lecture
Fall 2012
Quiz #10
(10 points)

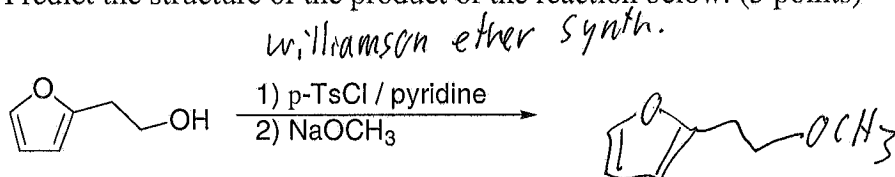
1. Complete the following reaction by filling in the necessary reagents. (2 points, see problem 11-19a)



2. Show how the product below can be made through a pinacol rearrangement by drawing a structure of the necessary starting material. (3 points)



3. Predict the structure of the product of the reaction below. (3 points)



4. Fill in the missing reagent in the following reaction. (2 points)

