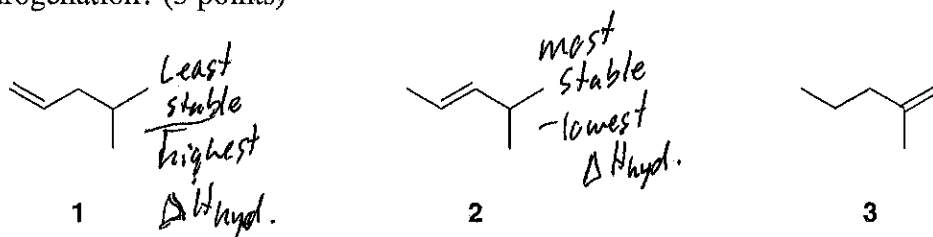


Name: Key

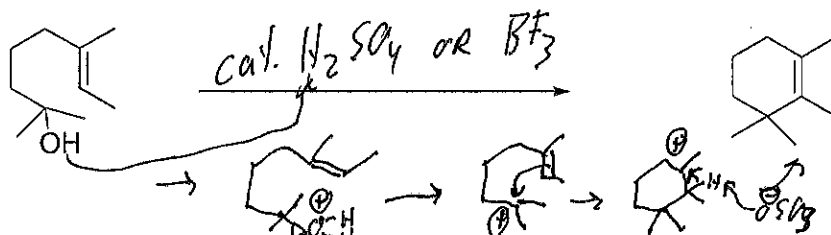
Organic I Lecture
Spring 2010
Quiz #6
 (10 points)

1. Which sequence ranks the following alkenes in order of increasing heat of hydrogenation? (3 points)

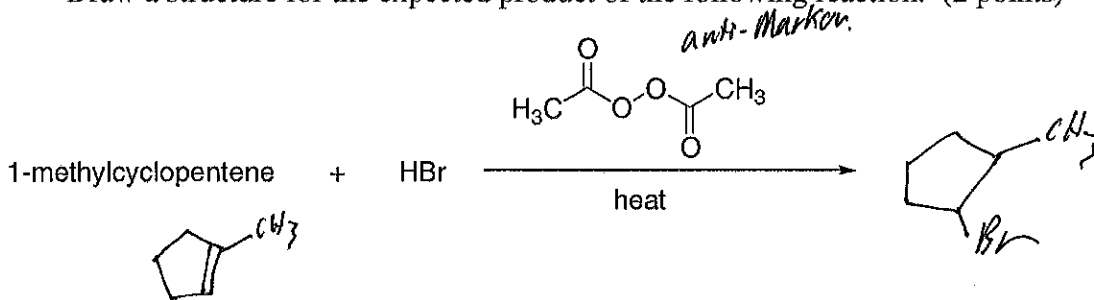


- a) 1<2<3 **b) 2<3<1** c) 3<1<2 d) 3<2<1 e) 2<1<3 f) 1<3<2

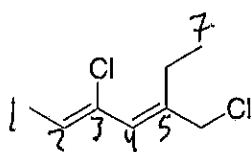
2. Fill in the necessary reagent(s) to complete the reaction below. (2 points)



3. Draw a structure for the expected product of the following reaction. (2 points)



4. Identify the correct name for the following structure. (3 points)



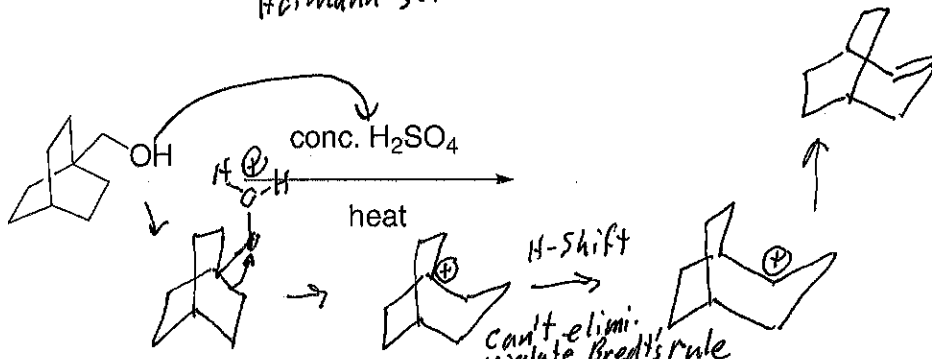
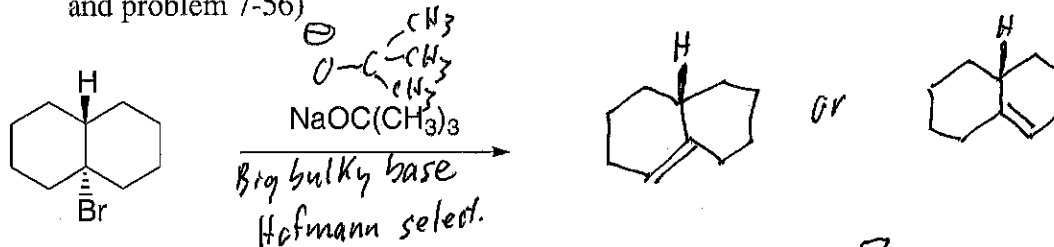
- a) (2E, 4Z) 1,4-dichloro-2-ethylhexa-2,4-diene
 b) (2E, 4Z) 3-chloro-5-chloromethylhepta-2,4-diene
 c) (3Z, 5E) 5-chloro-3-chloromethylhepta-3,5-diene
 d) (2Z, 4E) 1,4-dichloro-2-ethylhexa-2,4-diene
e) (2Z, 4E) 3-chloro-5-chloromethylhepta-2,4-diene

(2Z, 4E) 3-chloro-5-chloromethylhept-2,4-diene

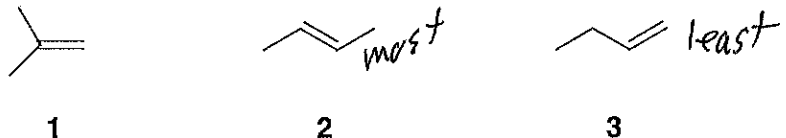
Name: Key

Organic I Lecture
Spring 2011
Quiz #6
 (10 points)

1. Draw a structure for the major product of each reaction below. (4 points, problem 7-39b and problem 7-56)

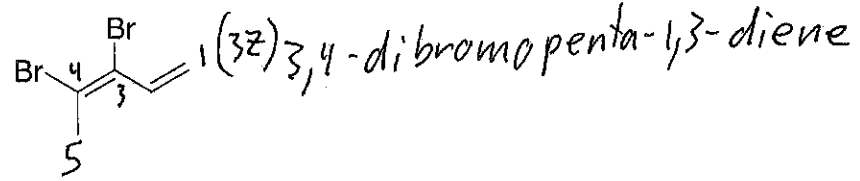


2. Which sequence ranks the following alkenes in order of increasing stability? (3 points)



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

3. Provide a correct IUPAC name for the structure below. Include correct descriptors for stereochemistry. (3 points)

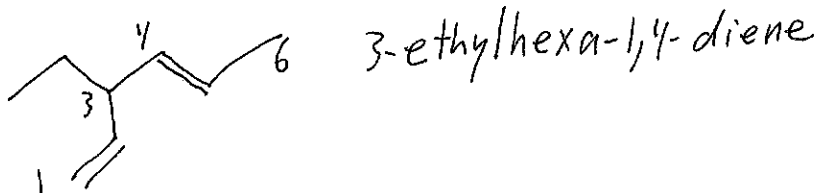


Name: Key

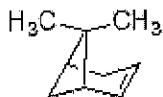
Organic I Lecture
Fall 2011
Quiz #6
(10 points)

1. The following compound is named incorrectly. Draw the structure and provide a correct IUPAC name for the compound. (3 points, problem 7-7b)

3-vinylhex-4-ene

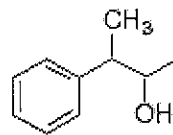
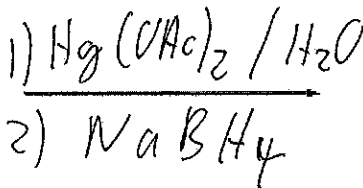
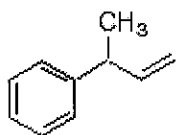
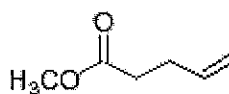
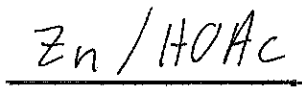
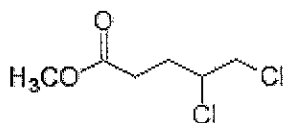


2. State whether the following compound can be isolated (stable) or not. Justify your answer. (2 points)



Stable, double bond is not at the bridgehead carbon

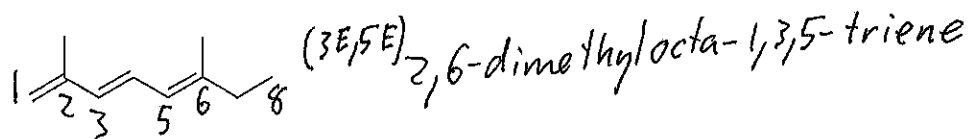
3. Complete the following reactions by filling in the missing reagents. (5 points)



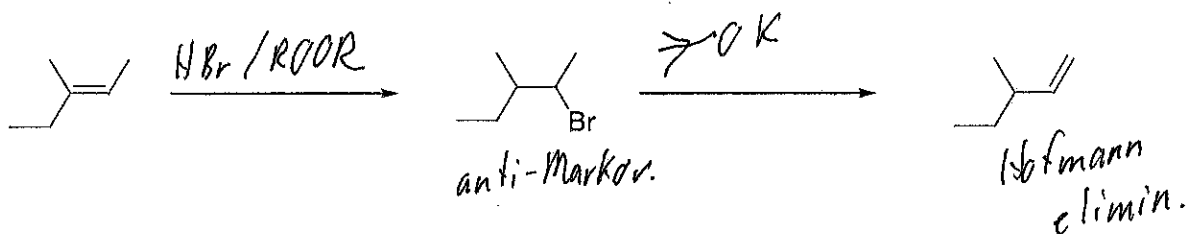
Name: Key

Organic I Lecture
Spring 2012
Quiz #6
(10 points)

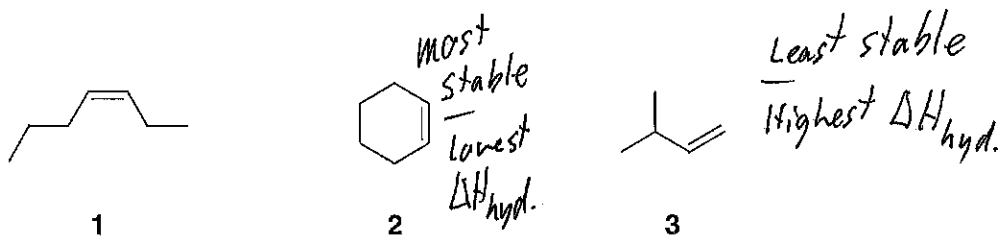
1. Provide a correct name for the following compound. (3 points, problem 7-32c)



2. Complete the following series of reactions by providing the necessary reagents. (4 points)



3. Which sequence ranks the following compounds in order of increasing heat of hydrogenation? (3 points)

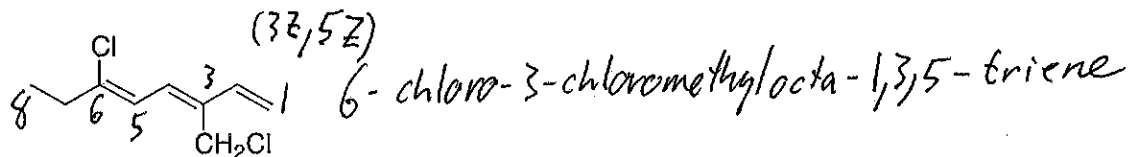


- a) 1<2<3 b) 2<3<1 c) 3<1<2 d) 3<2<1 e) 2<1<3 f) 1<3<2

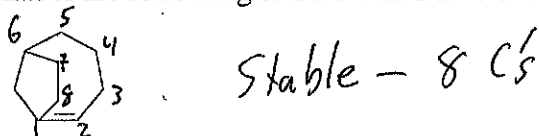
Name: Key

Organic I Lecture
Fall 2012
Quiz #6
 (10 points)

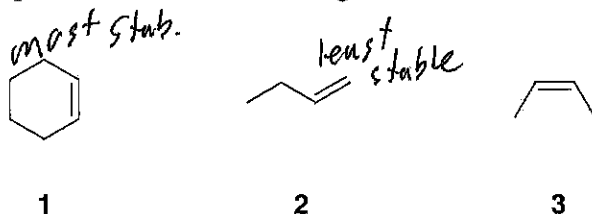
1. Provide a correct IUPAC name for the following compound. Be sure to include correct indicators of stereochemistry. (3 points, problem 7-32f)



2. Label the following structure as stable or unstable. (1 point)

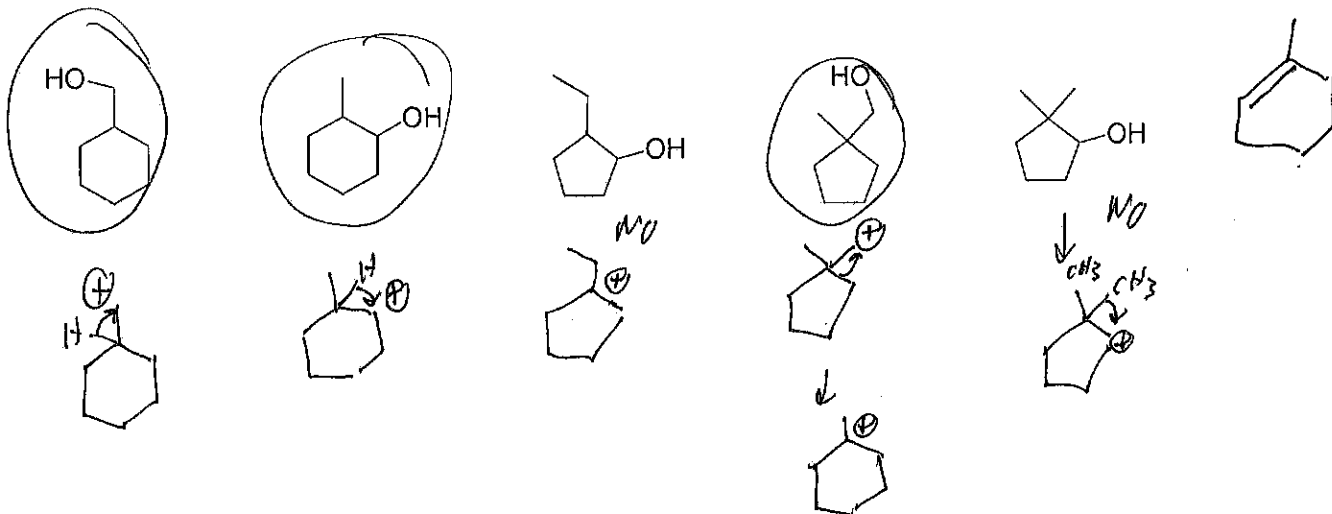


3. Which sequence ranks the following structures in order of increasing stability? (3 points)



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

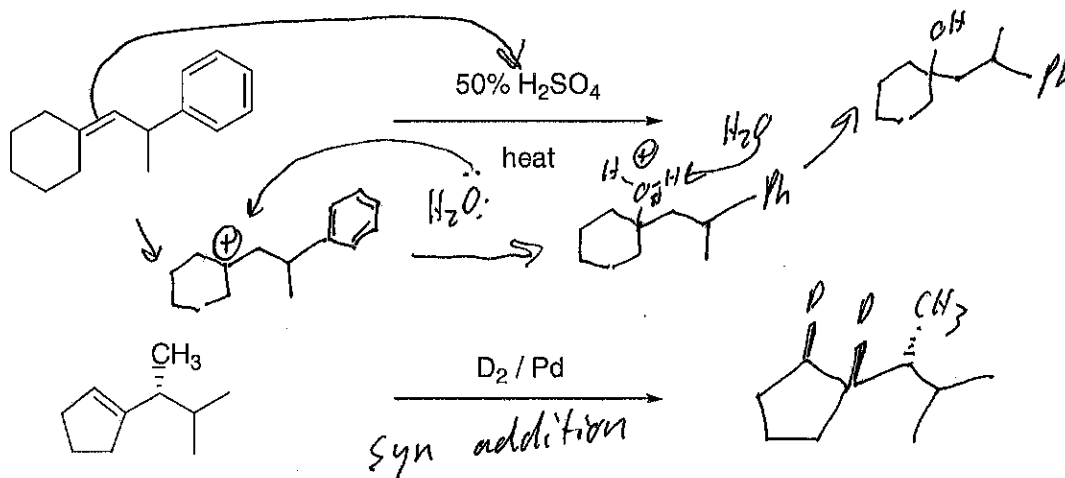
4. Circle all compounds below that would give 1-methylcyclohexene as the major dehydration product when treated with concentrated sulfuric acid and heat. (3 points)



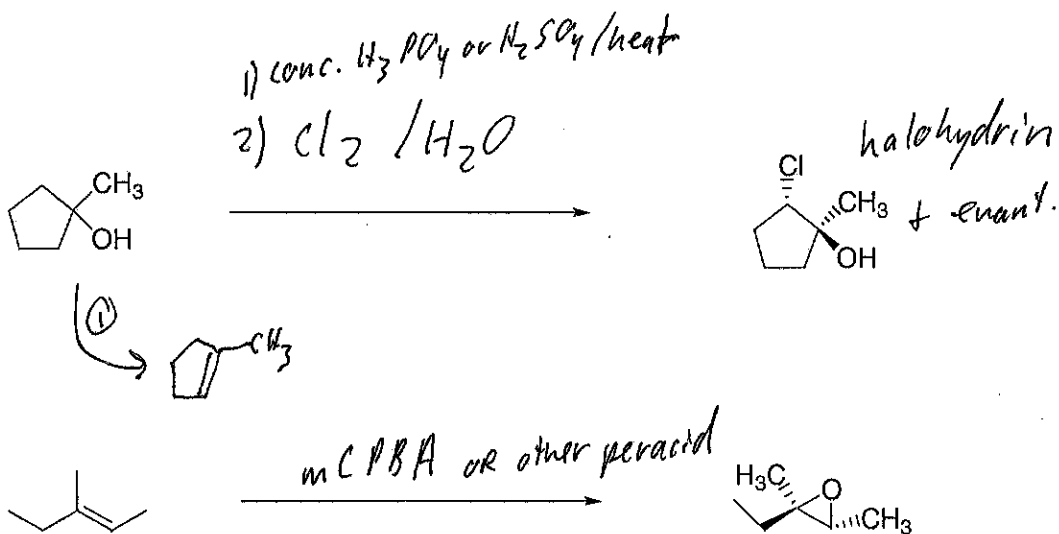
Name: Key

Organic I Lecture
Spring 2010
Quiz #7
(10 points)

1. Draw a structure for the product of the following reaction. (5 points)



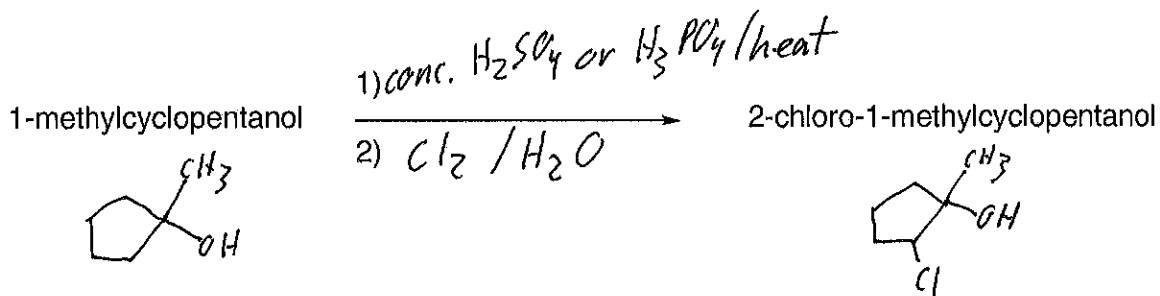
2. Fill in the necessary reagent(s) to complete each reaction below. (5 points, problem 8-22c)



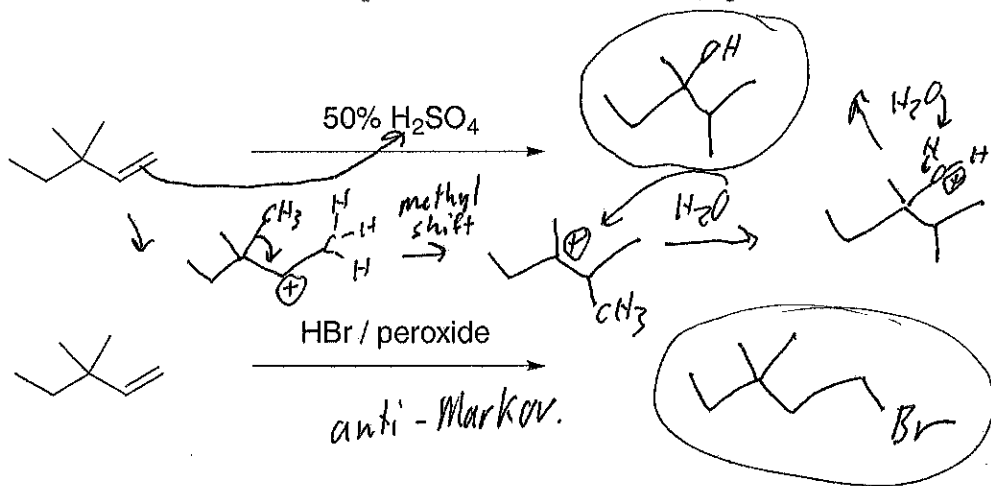
Name: Key

Organic I Lecture
Spring 2011
Quiz #7
(10 points)

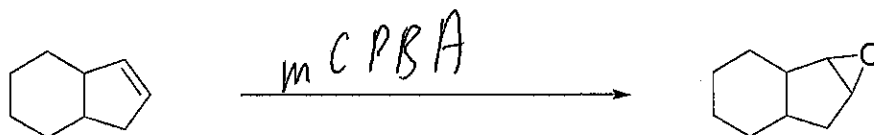
1. Complete the following reaction by filling in the necessary reagents. (4 points, problem 8-22c)



2. Draw structures for the product of each reaction. (4 points)



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



Name: Key

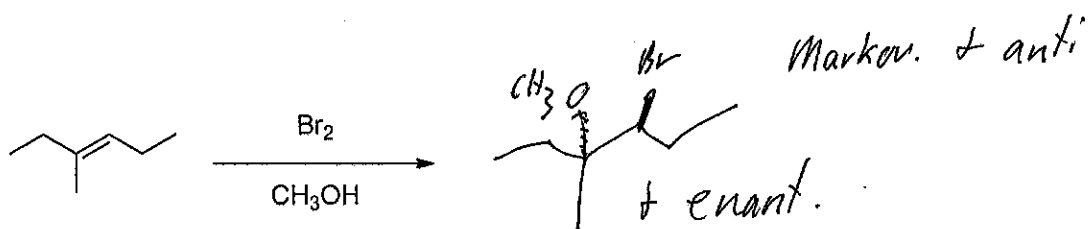
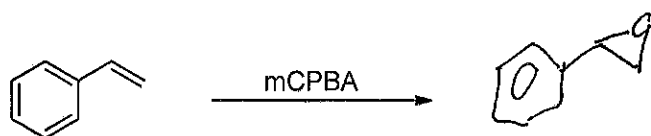
Organic I Chemistry

Fall 2011

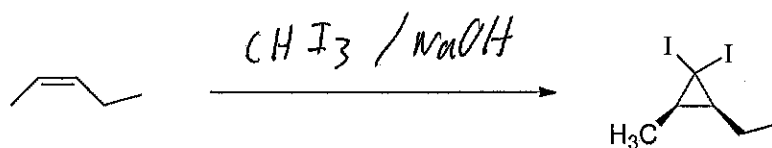
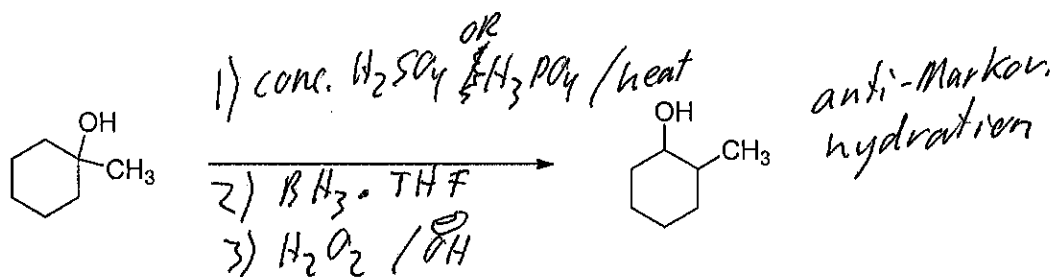
Quiz #7

(10 points)

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



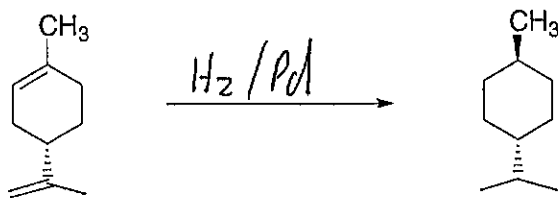
2. Complete the following two reactions by filling in the necessary reagents. (5 points, problem 8-15c)



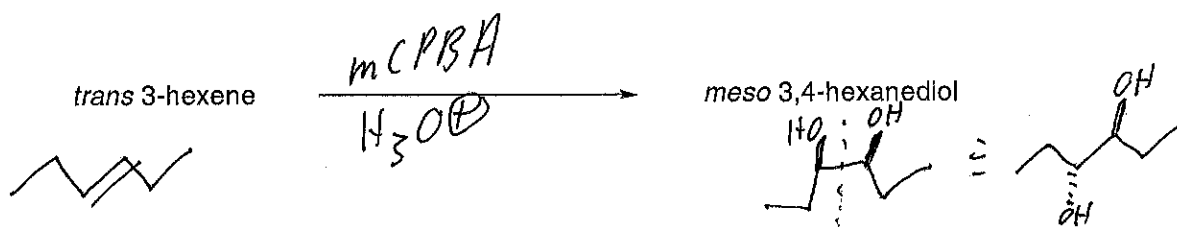
Name: Key

Organic I Lecture
Spring 2012
Quiz #7
(10 points)

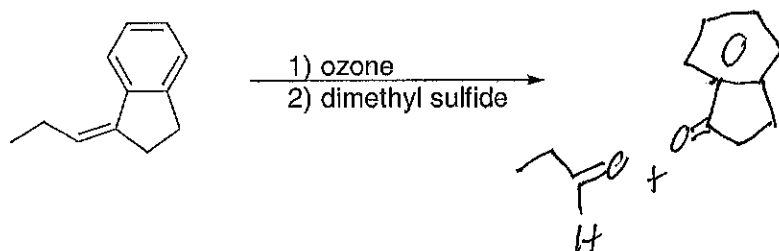
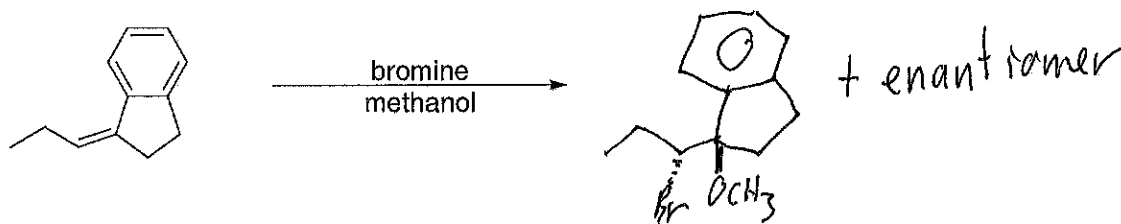
1. Complete the following reaction by indicating the necessary reagents. (2 points)



2. Show how to accomplish the following conversion. (2 points, problem 8-35c)



3. Complete the following two reactions by drawing structures for the expected products. Show any relevant stereochemistry. (6 points)



Name: Key

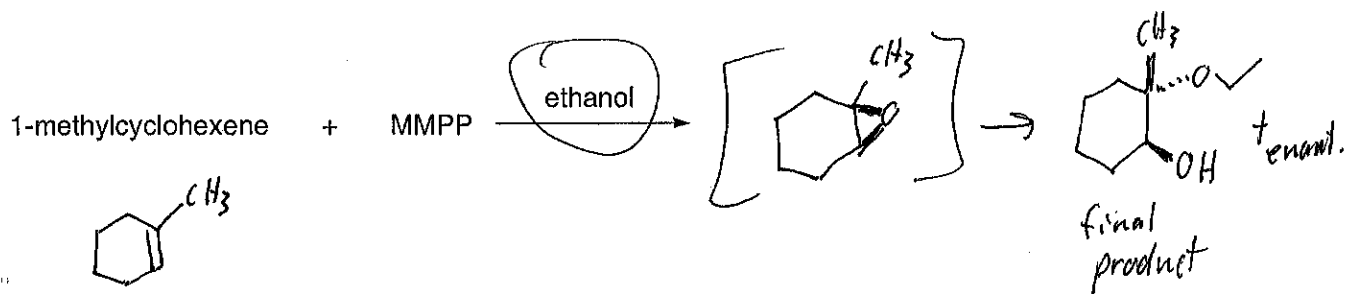
Organic I Lecture

Fall 2012

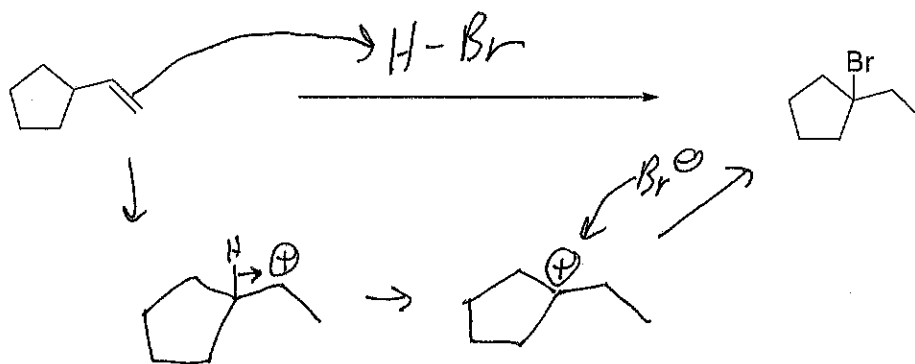
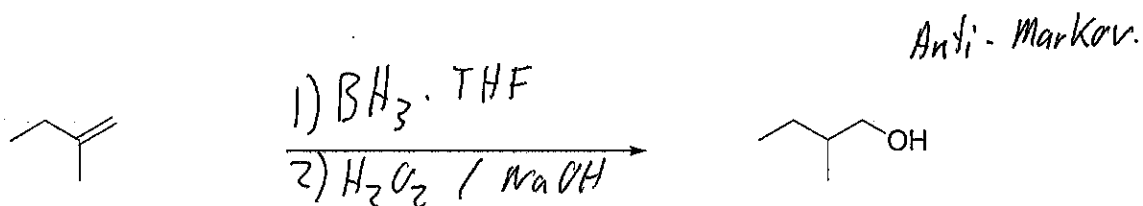
Quiz #7

(10 points)

1. Predict the major product of the following reaction. (4 points, problem 8-32c)



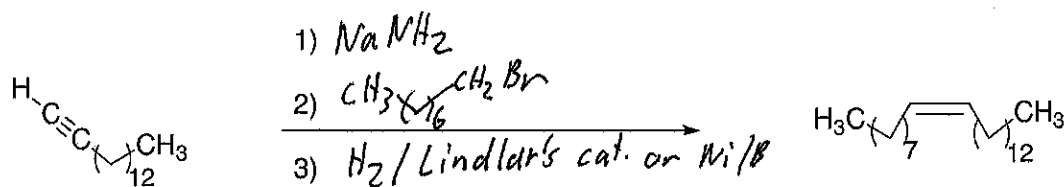
2. Complete the following reactions by filling in the necessary reagents. (6 points)



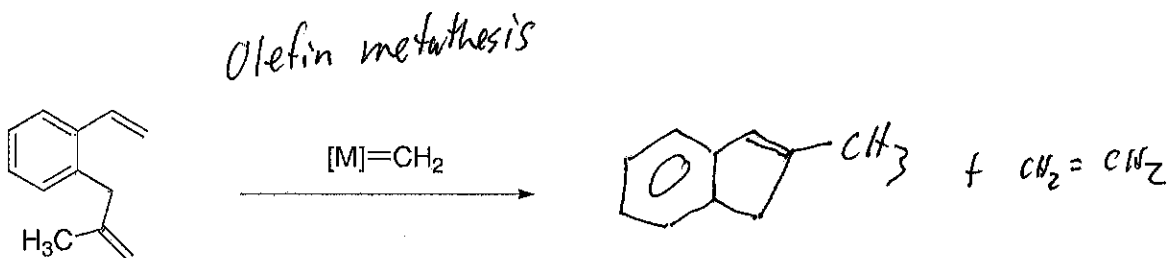
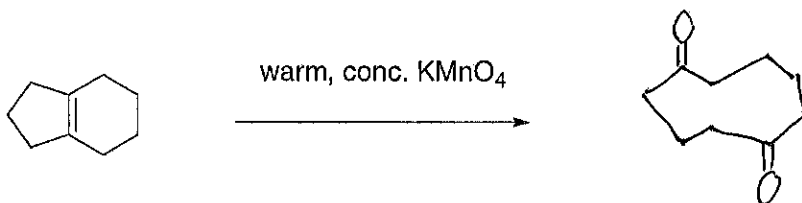
Name: Key

Organic I Lecture
Spring 2010
Quiz #8
(10 points)

1. Show how the synthesis of muscalure, a housefly sex attractant, can be accomplished by filling in the necessary reagents. (5 points, problem 9-32)



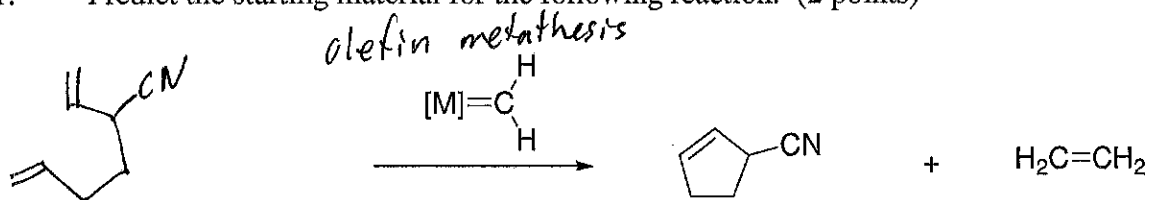
2. Provide a structure for the product of each reaction below. (5 points)



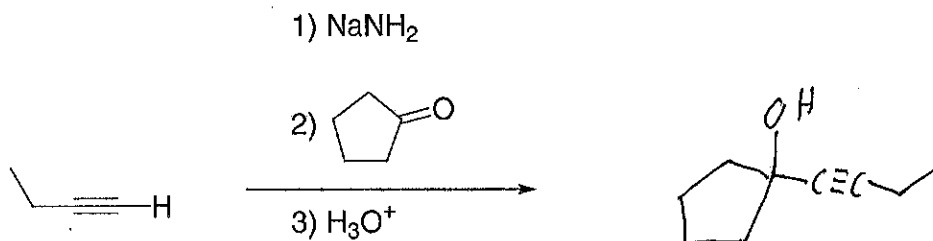
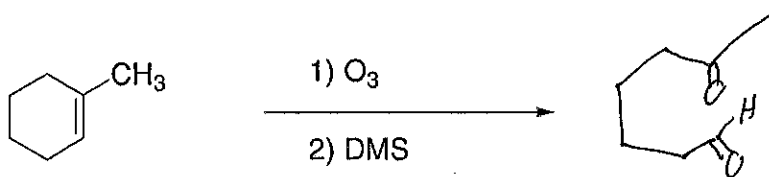
Name: Key

Organic I Lecture
Spring 2011
Quiz #8
(10 points)

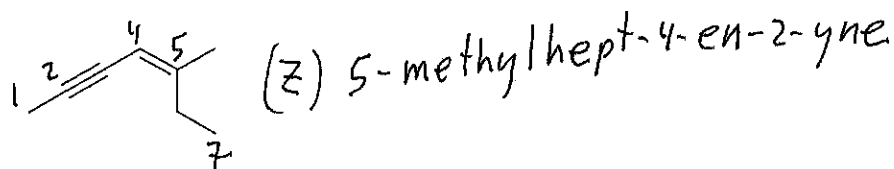
1. Predict the starting material for the following reaction. (2 points)



2. Complete the following reactions by drawing structures for each expected product. (6 points, problem 8-47L)



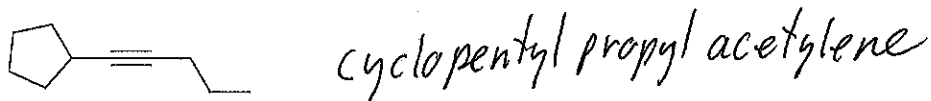
3. Provide a systematic name for the following compound. Include any necessary stereochemical indicators. (2 points)



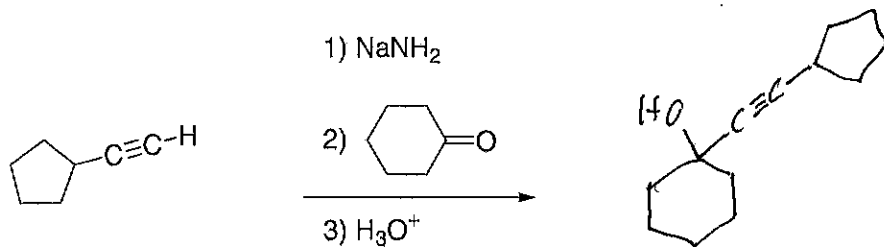
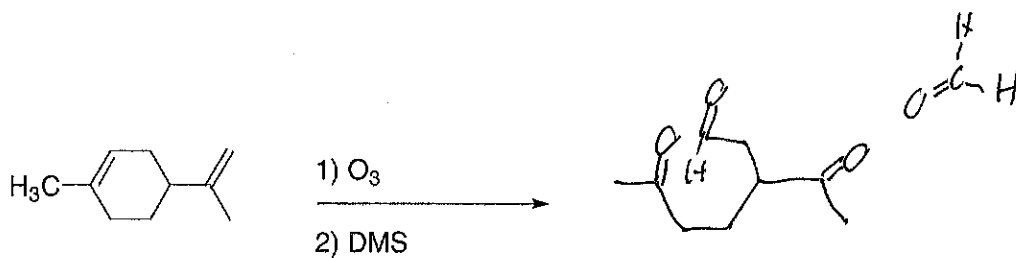
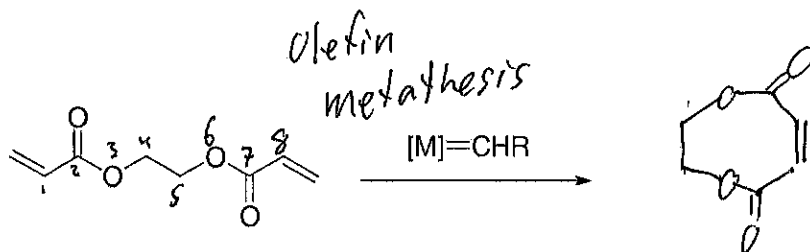
Name: Key

Organic I Lecture
Fall 2011
Quiz #8
(10 points)

1. Provide a common name for the following compound. (2 points)



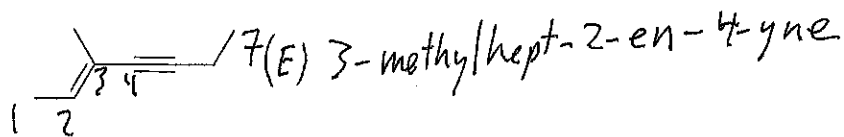
2. Predict the major product of each of the following reactions. (8 points)



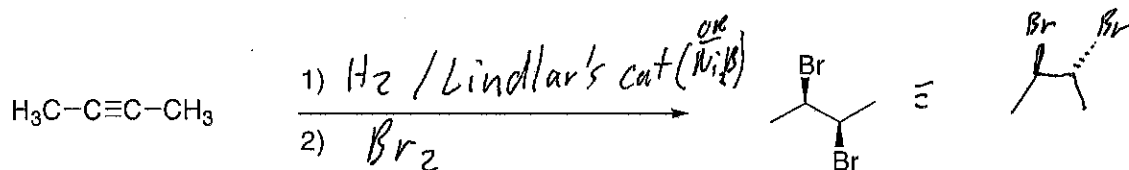
Name: Key

Organic I Lecture
Spring 2012
Quiz #8
(10 points)

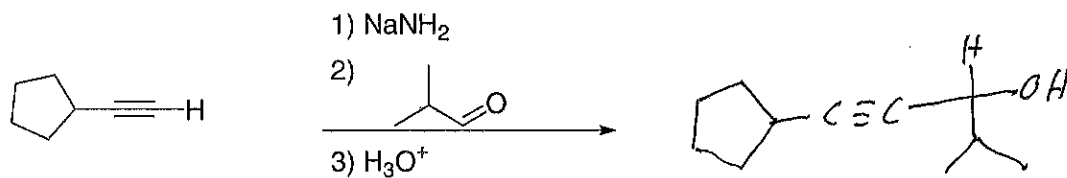
1. Provide an IUPAC name for the following compound. (2 points, problem 9-29d)



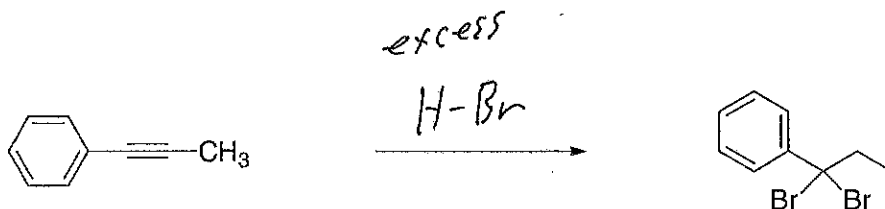
2. Complete the following conversion by filling in the necessary reagents. (4 points)



3. Draw a structure for the expected product of the following reaction. (3 points)



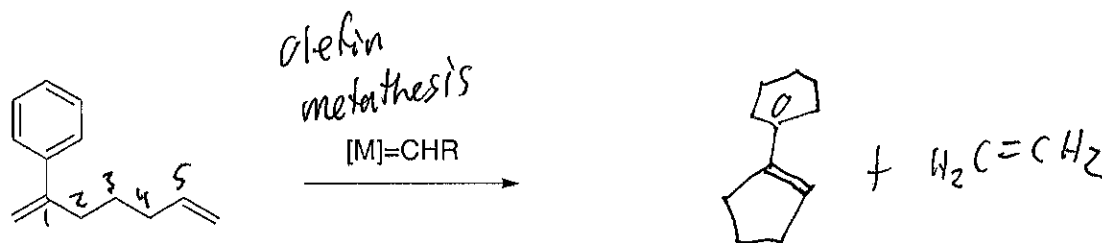
4. What reagent is needed to complete the following reaction? (1 point)



Name: Key

Organic I Lecture
Fall 2012
Quiz #8
(10 points)

1. Predict the major product of the following reaction. (2 points)



2. Complete the following reactions by filling in the necessary reagents. (8 points, see problem 9-8a)

