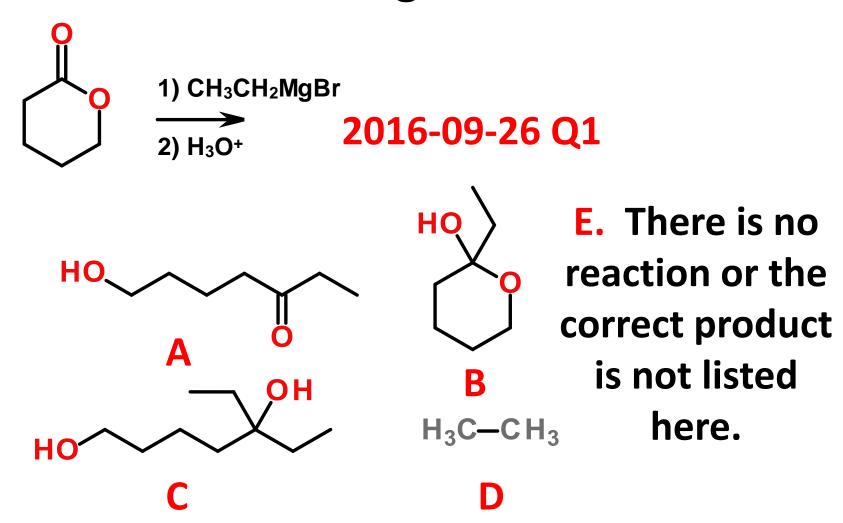
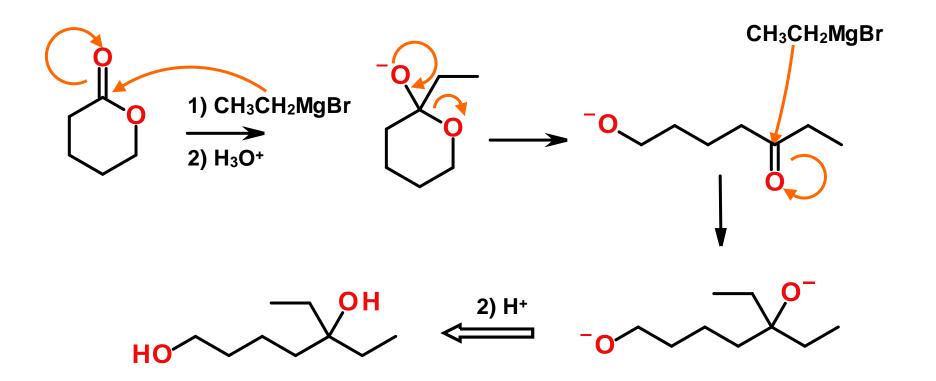
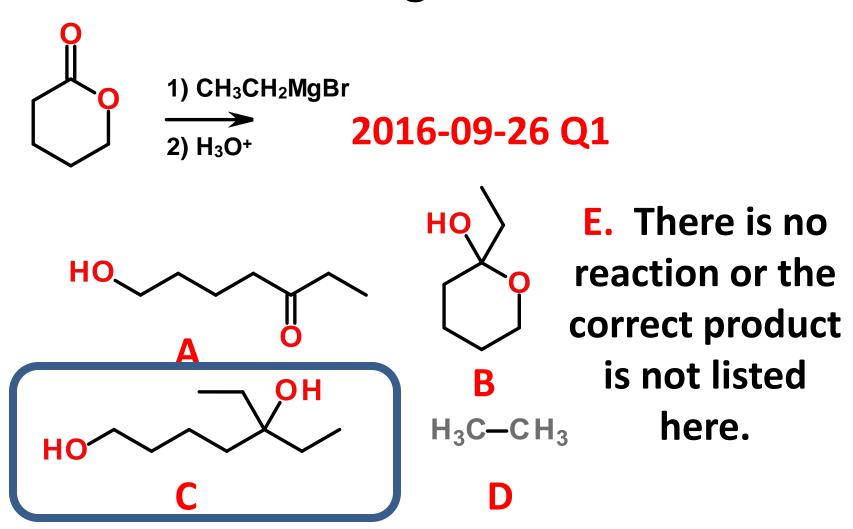
Give the major organic product(s) of the following reaction.



Explanation



Give the major organic product(s) of the following reaction.



Exam 2

- Time:
 - Tuesday, October 18: 7:00 9:00PM OR
 - Wednesday, October 19: 7:00 9:00PM OR
 - Thursday, October 20: 7:00 10:00PM
- Location Soc/Anthro Testing Center
 - Chapters will be covered in this order: Chapter 19, 12
- Practice Exams are Posted
 - Ex2-14-98 Practice Exam 2A
 - Ex2-14-98 Practice Exam 2B
- Deadline for alternate arrangements is Monday, 10/17/2016 at 4:30 PM (i.e., close of business)
 - An oral make-up exam will be required for making up the exam for all students not taking the exam on the above dates or having already made prior arrangements

No Class Wednesday!

My wife is having a procedure done at the hospital and I need to be at the hospital.

Order of Coverage (Exam 2)

	Homework Assignment	Due Date
1	Ex2-01-B7-19-08A Aryl Side Chain Rxns	Saturday, September 24, 2016
2	Ex2-01-B7-19-08B Aryl Side Chain Rxns	Sunday, September 25, 2016
3	Ex2-02-B7-19-09A Arylamines	Monday, September 26, 2016
4	Ex2-02-B7-19-09B Arylamines	Tuesday, September 27, 2016
5	Ex2-03-B7-12-01A Grignard Rxns	Wednesday, September 28, 2016
6	Ex2-03-B7-12-01B Grignard Rxns	Thursday, September 29, 2016
7	Ex2-04-B7-12-02A Hydride Reductions	Friday, September 30, 2016
8	Ex2-04-B7-12-02B Hydride Reductions	Saturday, October 1, 2016
9	Ex2-05-B7-12-01A Naming Carboxylic Acids	Sunday, October 2, 2016
10	Ex2-05-B7-12-01B Naming Carboxylic Acids	Monday, October 3, 2016
11	Ex2-06-B7-12-02A Prep Carbox Acids	Tuesday, October 4, 2016
12	Ex2-06-B7-12-02B Prep Carbox Acids	Wednesday, October 5, 2016

No Problem for Class Scheduling due to Cancelled Class: We will handle Hydride Reductions Today in Class

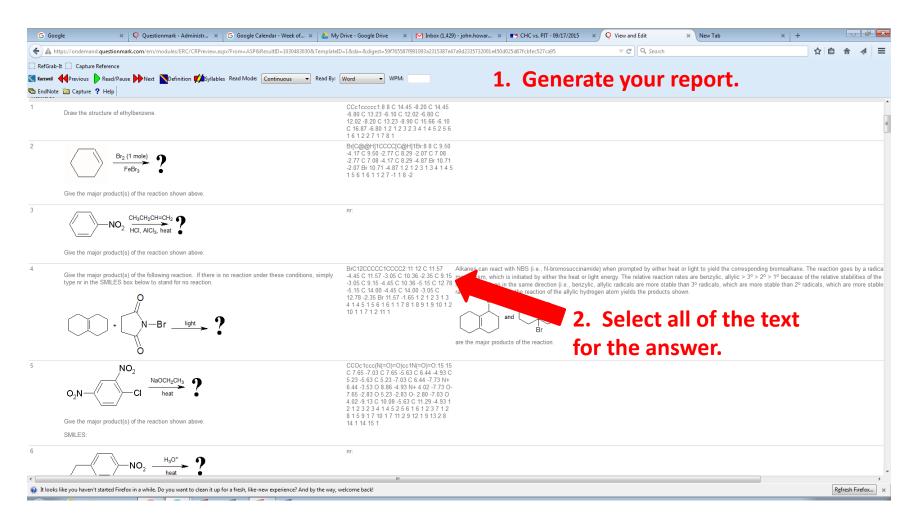
Order of Coverage (Exam 2)

	Homework Assignment	Due Date
13	Ex2-07-B7-12-03A Carbox Acid Rxns	Thursday, October 6, 2016
14	Ex2-07-B7-12-03B Carbox Acid Rxns	Friday, October 7, 2016
15	Ex2-08-B7-12-04A Naming Carbox Acid Derivatives	Saturday, October 8, 2016
16	Ex2-08-B7-12-04B Naming Carbox Acid Derivatives	Sunday, October 9, 2016
17	Ex2-09-B7-12-05A Rxns Acid Chlorides	Monday, October 10, 2016
18	Ex2-09-B7-12-05B Rxns Acid Chlorides	Tuesday, October 11, 2016
19	Ex2-10-B7-12-06A Rxns Esters	Wednesday, October 12, 2016
20	Ex2-10-B7-12-06B Rxns Esters	Thursday, October 13, 2016
21	Ex2-11-B7-12-07A Rxns Amides	Friday, October 14, 2016
22	Ex2-11-B7-12-07B Rxns Amides	Saturday, October 15, 2016
23	Ex2-12-B7-12-08A Step Growth Polymers	Sunday, October 16, 2016
	Exam 2	October 18, 19, 20

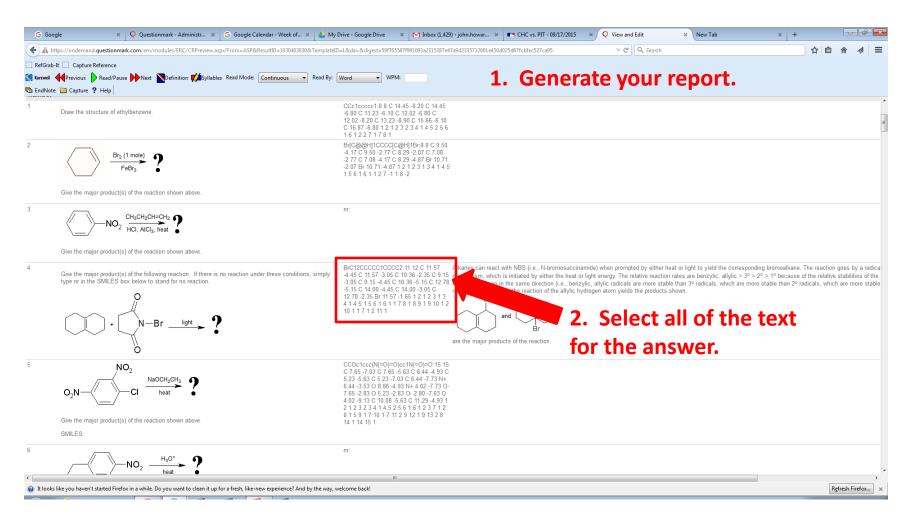
Appealing Computer Grading

- In an email, tell me the question number(s) of the question that you want to appeal. Give your explanation for why you believe that the question was graded incorrectly. I will reply by email.
- Chances are that I probably will not respond by email. When we determine final letter grades at the end of the semester and if you are one or two questions short of your preferred letter grade, we will look at appeals at that point in time.

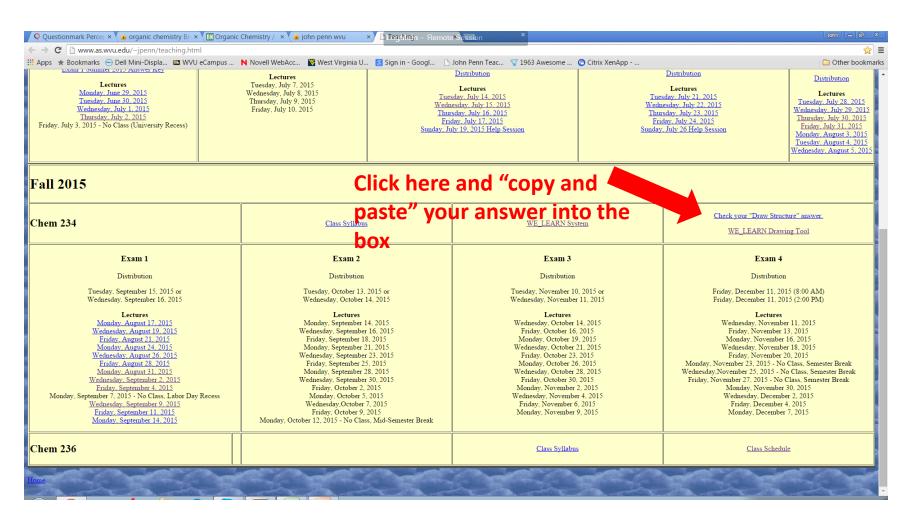
Can you see your DRAW_STRUCTURE answers? YES



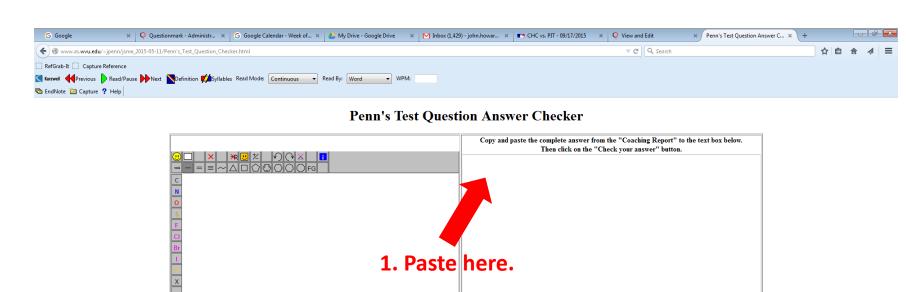
Can you see your DRAW_STRUCTURE answers? YES



Can you see your Draw_Structure answers? YES



"Copy and paste" your answer here

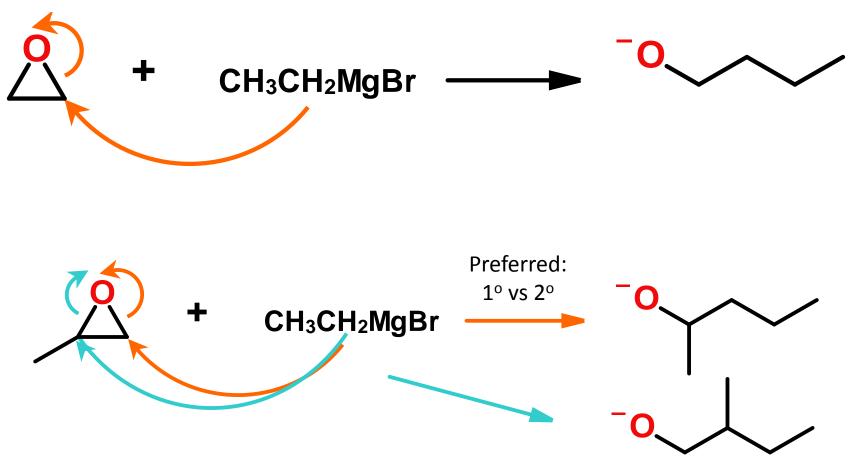


JSME Molecular Editor by Peter Ertl and Bruno Bienfait

If you have problems in using this page, take a picture of your problem and to Dr. Penn.

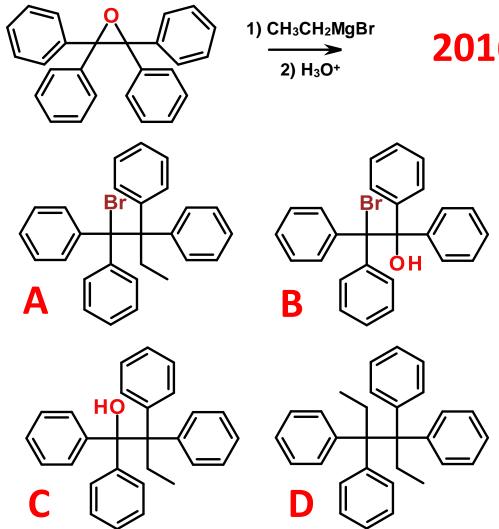
2. Click here to show your answer.

Grignard Reactions with Epoxides



Analogous to SN2 Reactions: Steric Effects Rule!

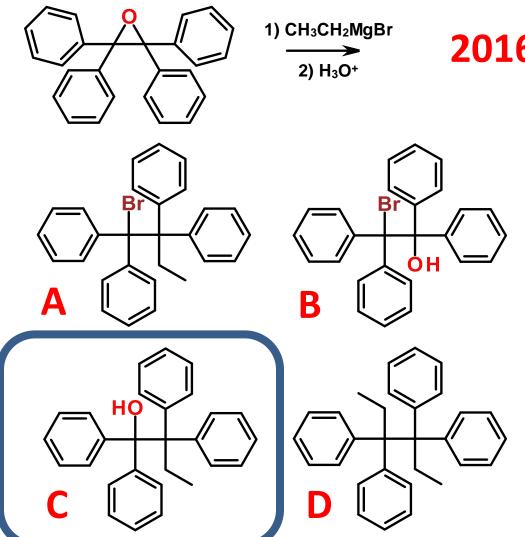
Give the major organic product(s) of the following reaction.



2016-09-26 Q2

E. There is no reaction or the correct product is not listed here.

Give the major organic product(s) of the following reaction.



2016-09-26 Q2

E. There is no reaction or the correct product is not listed here.

Hydride Reductions

NaBH₄

- Weaker Hydride
- Reacts with
 - Aldehydes and Ketones
- Does Not React with
 - Esters
 - Carboxylic Acids (????)
 - Amides

LiAlH₄

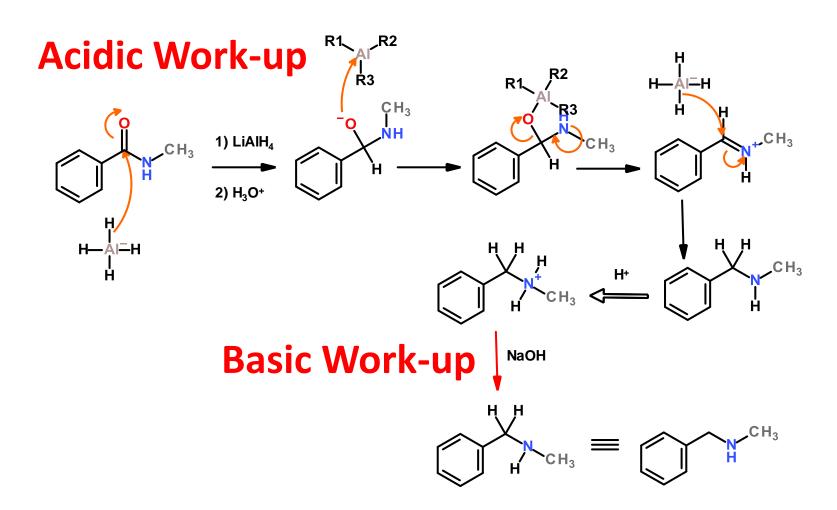
- Stronger Hydride
- Reacts with
 - Aldehydes and Ketones
 - Esters
 - Carboxylic Acids
 - Amides
 - Acid Work-up
 - Basic Work-up

Mechanism of Hydride Reduction: Aldehydes and Ketones

Mechanism of Hydride Reduction:

Hydrides with Carboxylic Acids

Amide Reduction by LiAlH₄



E - None of these products are a major product of the reaction that is shown.