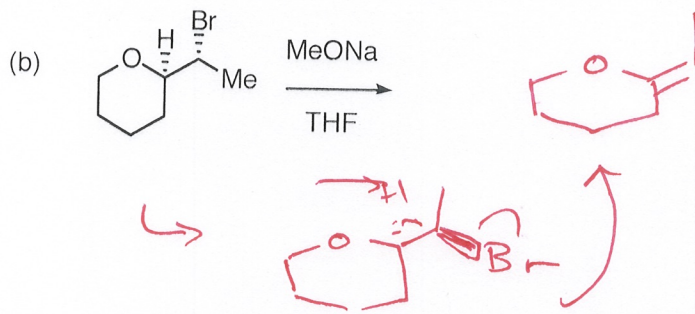
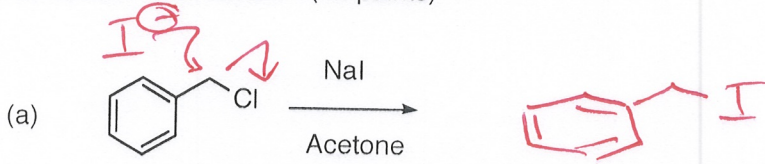


Quiz 3a.

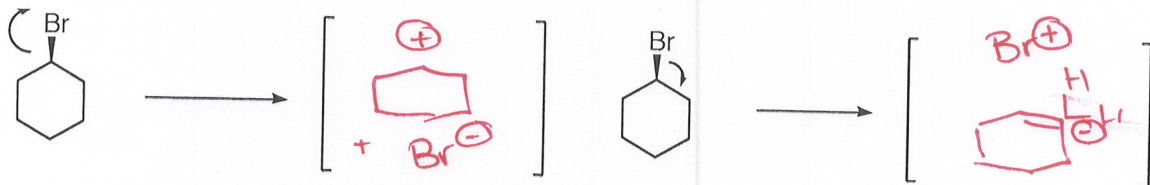
Name:
Recitation Instructor:

The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

1) What is the product of the following reaction, making sure to show appropriate stereochemistry, and show an appropriate mechanism. (10 points)



2a. Show the reaction intermediates that result from the following electron arrows. Make sure to show all components (5 points)



2b. One of these above is really bad. Which one and why? (5 points)

Really Bad.
Broken Octet

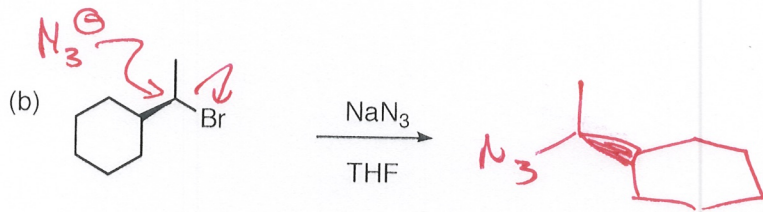
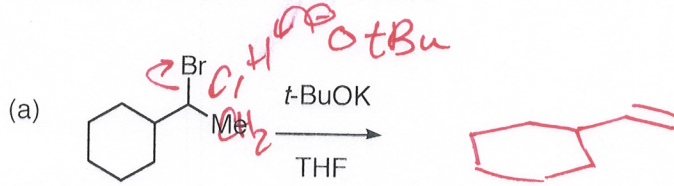
Quiz 3b.

Name:

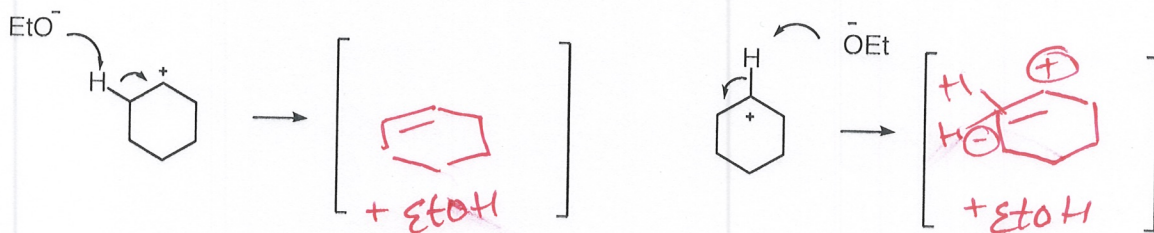
Recitation Instructor:

The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

1) What is the product of the following reaction, making sure to show appropriate stereochemistry, and show an appropriate mechanism. (10 points)



2a. Show reaction intermediates/products that result from the following electron arrows. Make sure to show all components of the reaction (5 points)



2b. One of these above is really bad. Which one and why? (5 points)

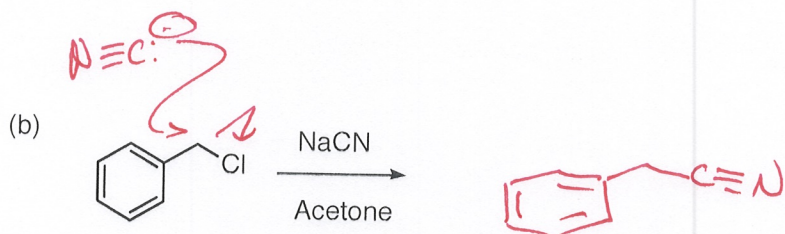
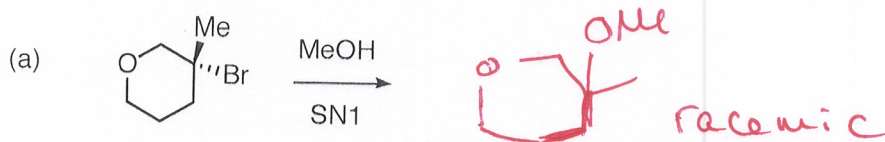
Really Bad
Broken Octet
; you are
not addressing
Carbocation Charge by
doing this.

Quiz 3c.

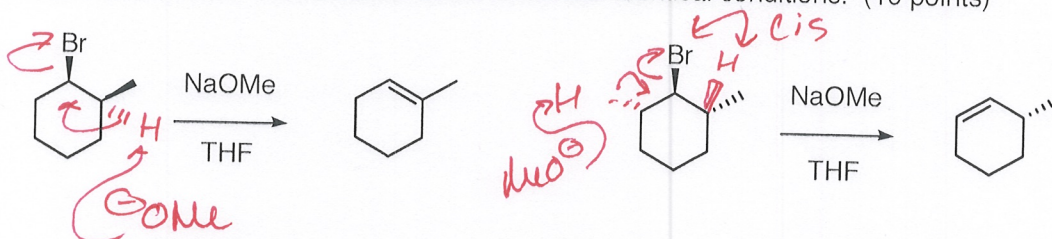
Name:
Recitation Instructor:

The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

1) What is the product of the following reaction, making sure to show appropriate stereochemistry, and show an appropriate mechanism. (10 points)



2. Using structures and mechanisms based on what you know about E2 reactions, explain the following differences in product formation of different diastereoisomers under identical conditions. (10 points)

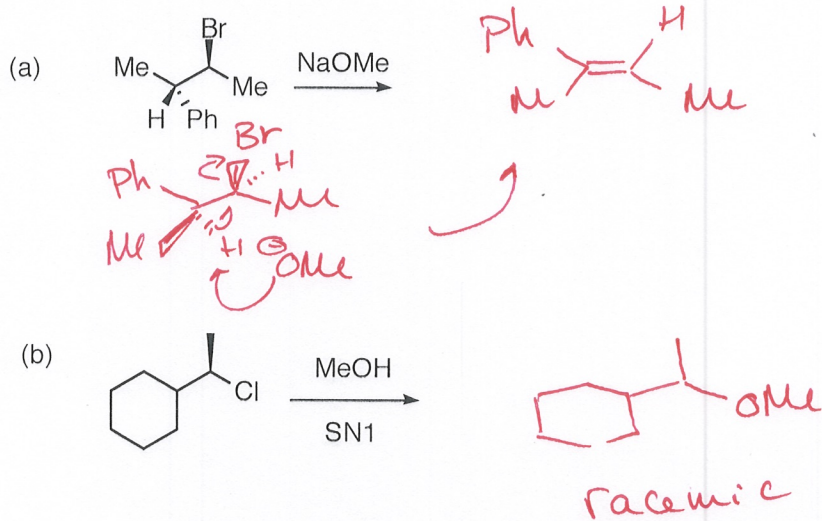


50
Quiz 3d.

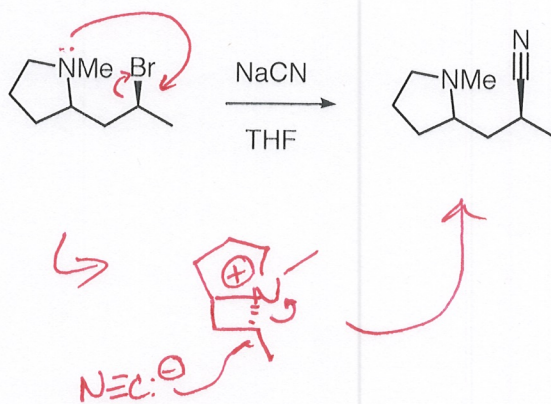
Name:
Recitation Instructor:

The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

1) What is the product of the following reaction, making sure to show appropriate stereochemistry, and show an appropriate mechanism. (10 points)



2. The following invokes a double SN2 reaction which provides retention of stereochemistry, and it works this way because it has a 'built in' nucleophile in the form of the amine. Show a mechanism for this overall process. (10 points)

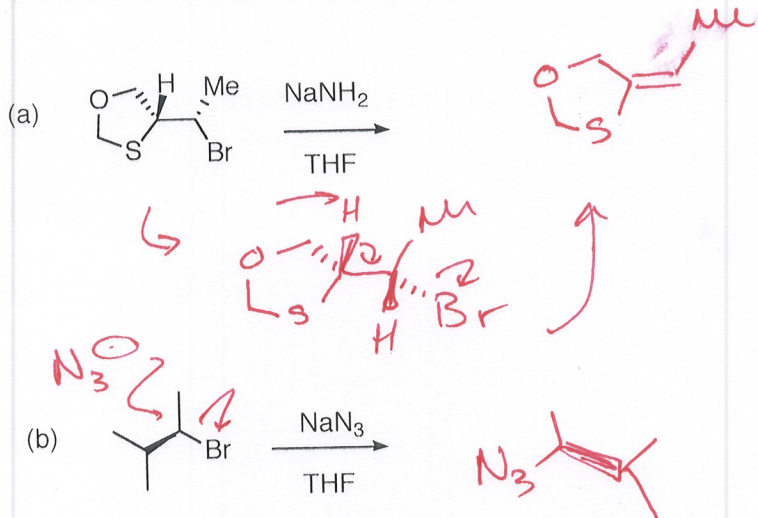


Quiz 3e.

Name:
Recitation Instructor:

The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

1) What is the product of the following reaction, making sure to show appropriate stereochemistry, and show an appropriate mechanism. (10 points)



2. The following is an SN1 reaction that involves a bond reorganization, and generates the carbocation shown. Show a mechanism for the overall process (10 points)

