

Quiz 3a.

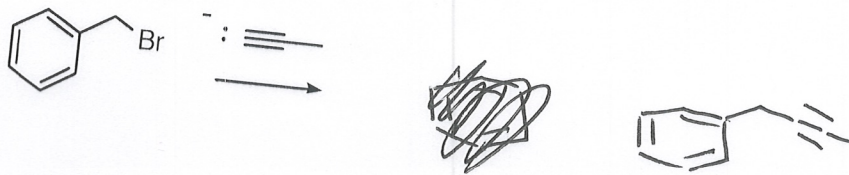
Name:

Recitation Instructor:

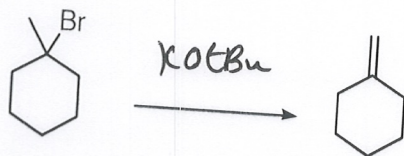
The following quiz will begin 5 minutes into the start of recitation and will last 30 minutes. Good luck.

M12  
① J

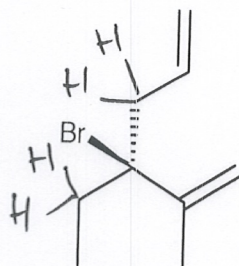
1) Predict the product of the following reaction (4 points)



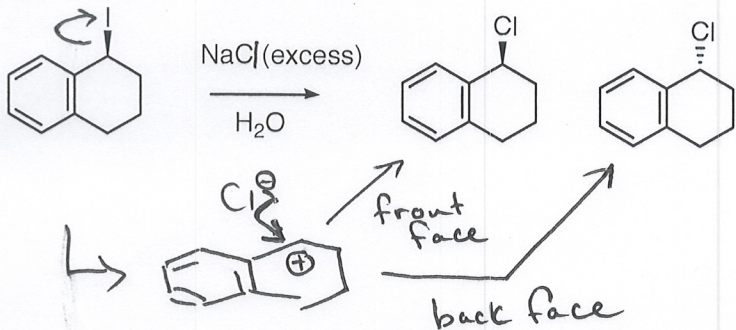
2) Show the reagents necessary to carry out the following transformation (4 points)



3) Draw all of the  $\beta$ -protons on the following molecule. As a reminder,  $\beta$ -protons are those that could lead to E1 or E2 elimination. (6 points)



4) Show a mechanism of the following theoretical transformation that is consistent with the observed stereochemical outcome (6 points)



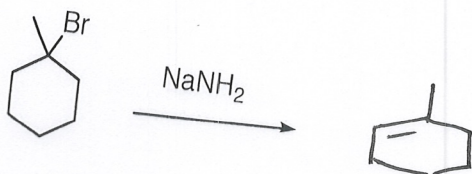
Quiz 3b.

Name:  
Recitation Instructor:

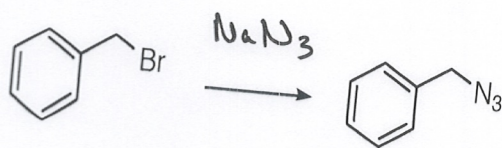
M-1  
JS  
MW

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

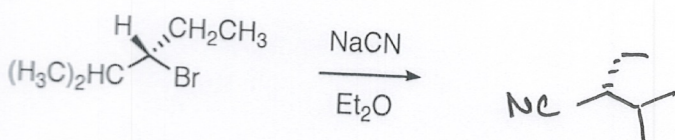
1) Predict the product of the following reaction (4 points)



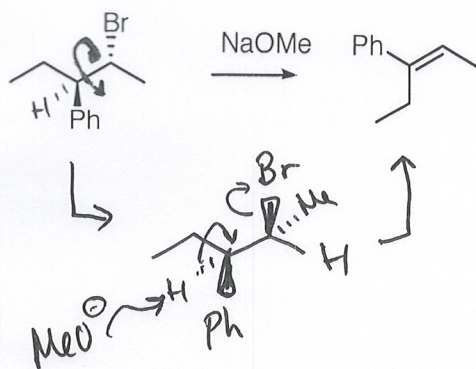
2) Show the reagents necessary to carry out the following transformation (4 points)



3) Draw the product of the following  $\text{S}_{\text{N}}2$  Reaction. (6 points)



4) Show a mechanism of the following reaction. Make sure that your mechanism clearly addresses why the alkene stereochemistry is what is shown (6 points)



Quiz 3c.

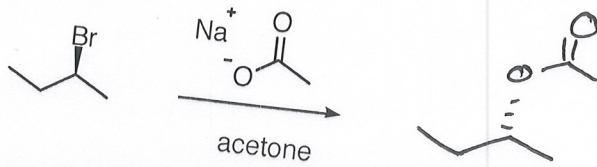
Name:

Recitation Instructor:

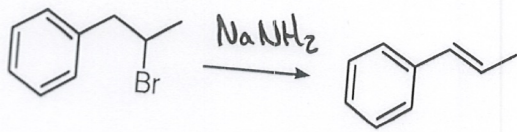
Tu 1  
055

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

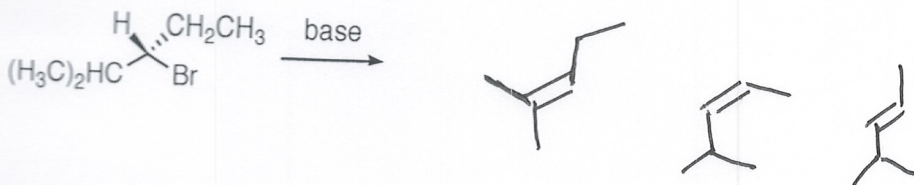
1) Predict the product of the following reaction (4 points)



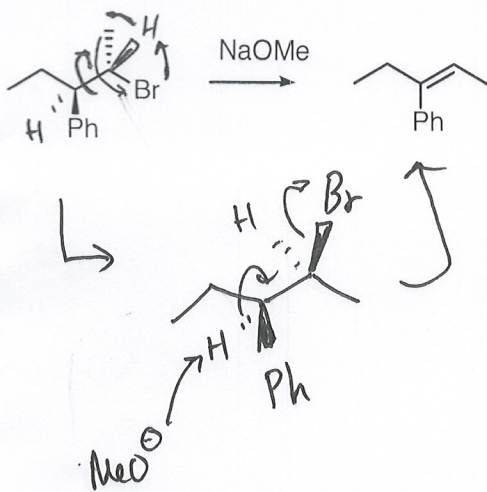
2) Show the reagents necessary to carry out the following transformation (4 points)



3) Three products could in theory be generated by elimination chemistry on the following molecule. Show all 3 (6 points)



4) Show a mechanism of the following reaction. Make sure that your mechanism clearly addresses why the alkene stereochemistry is what is shown (6 points)



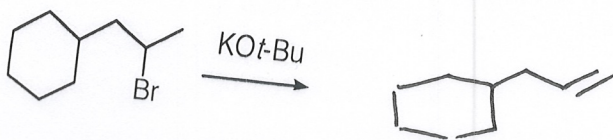
Quiz 3d.

Name:  
Recitation Instructor:

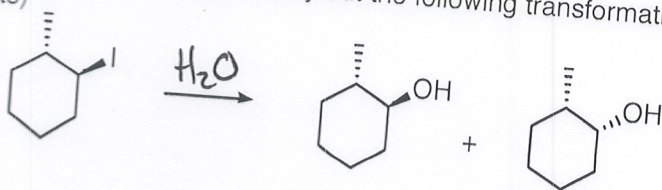
W12  
①  
S,

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

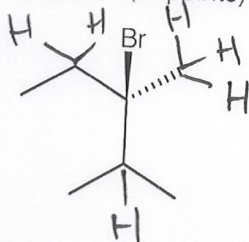
1) Predict the product of the following reaction (4 points)



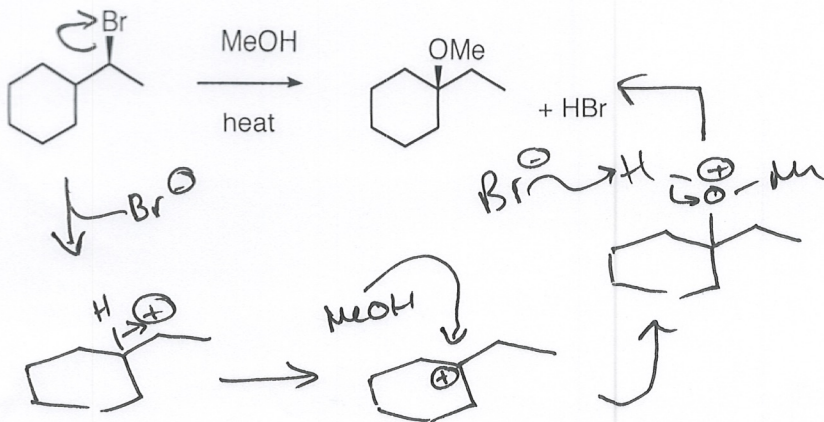
2) Show the reagents necessary to carry out the following transformation. Would this be  $\text{SN1}$  or  $\text{SN2}$ ? (4 points)



3) Draw all of the  $\beta$ -protons on the following molecule. As a reminder,  $\beta$ -protons are those that could lead to E1 or E2 elimination. (6 points)



4) Show a mechanism that illustrates the following reaction outcome. (6 points)



Quiz 3e.

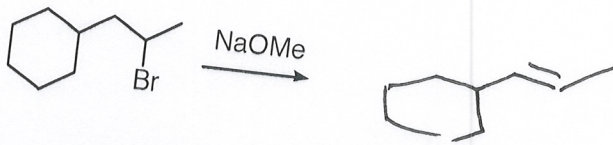
Name:

Recitation Instructor:

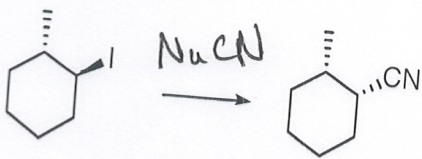
Th/2  
OU

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

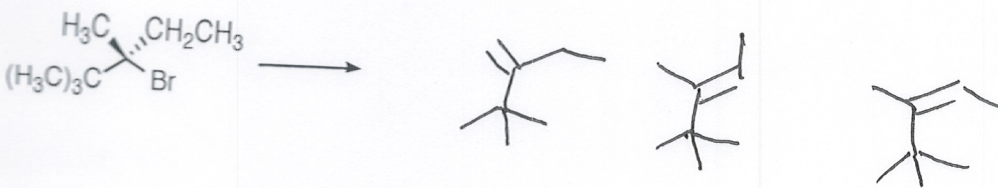
1) Predict the product of the following reaction (4 points)



2) Show the reagents necessary to carry out the following transformation. Would this be SN1 or SN2? (4 points)



3) Three products could in theory be generated by elimination chemistry on the following molecule. Show all 3 (6 points)



4) Show a mechanism of the following reaction. Make sure that your mechanism clearly addresses why the alkene stereochemistry is what is shown (6 points)

