

First Letter of Last Name

Key

Write your name above this line

2283g Quiz 1
Dr. Brian Pagenkopf
February 28, 2011

Please stay in your seats and don't leave until 9:45, 10:00 or 10:15 No notes, books, calculators, cell phones, iPods, computers or electronics of any sort allowed. Please turn off the ringer on your phone now.

Be sure you have all of the exam pages.

PERIODIC TABLE OF THE ELEMENTS

Atomic masses are based on ^{12}C . Atomic masses in parentheses are for the most stable isotope.

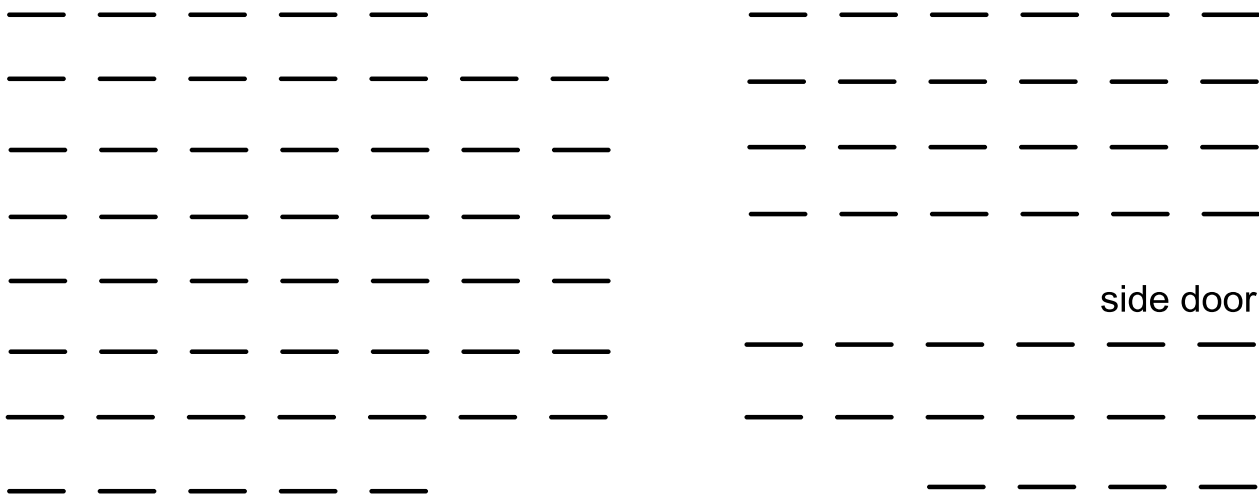
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ID number

Place an X where you are sitting.

front of room.



Draw a specific structure (no generic R groups) that has a pKa close to the number given.

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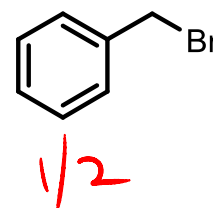
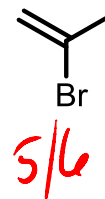
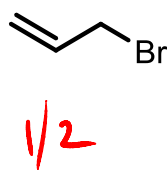
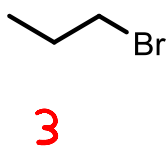
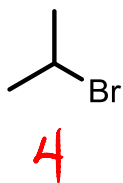
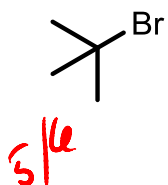
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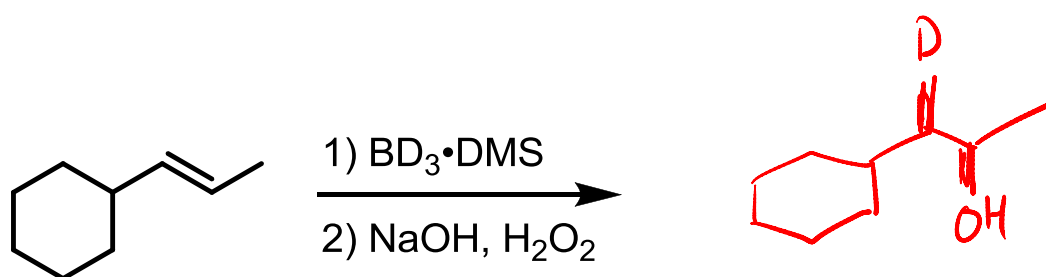
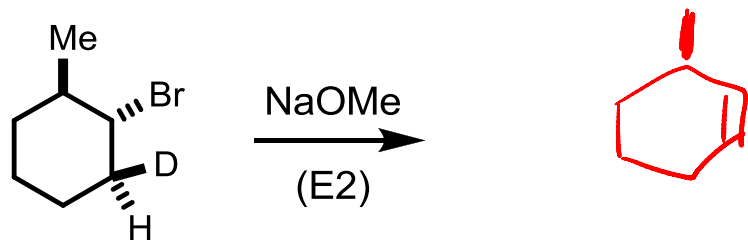
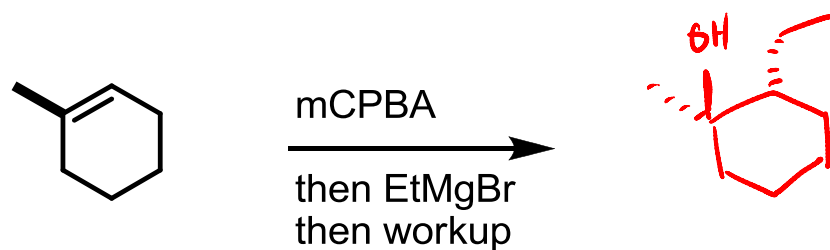
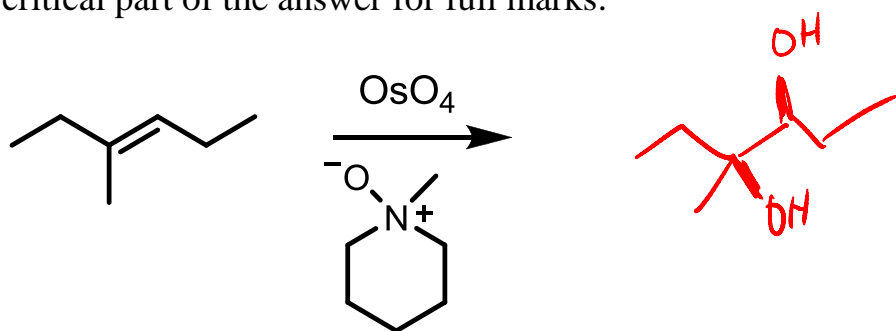
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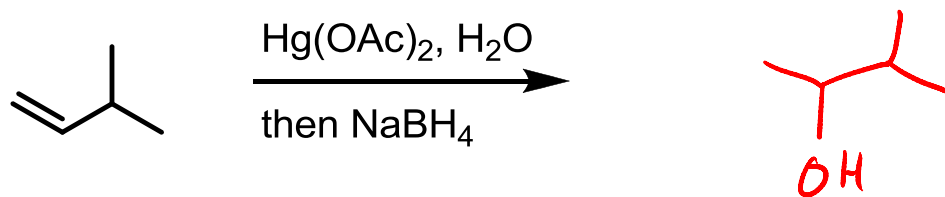
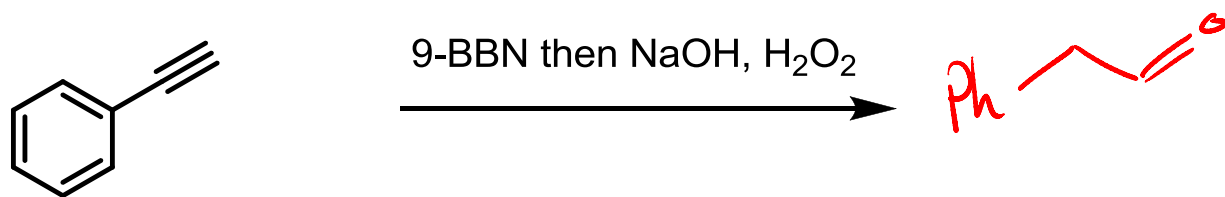
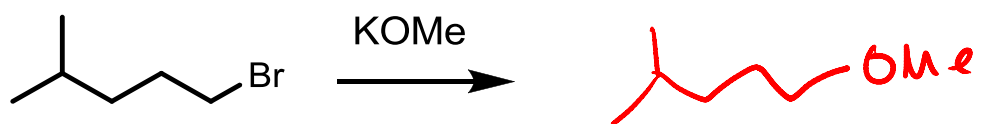
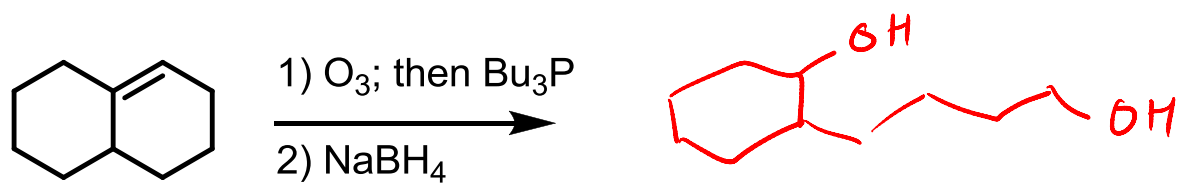
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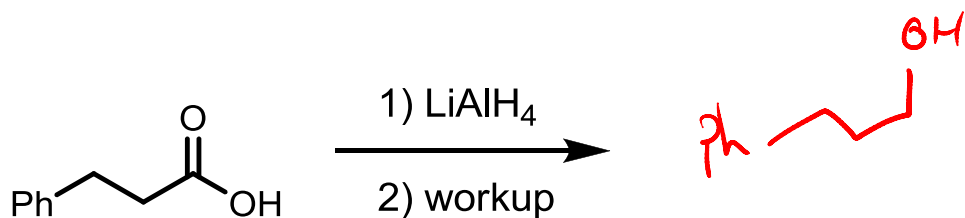
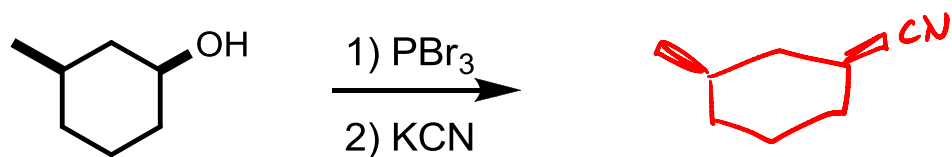
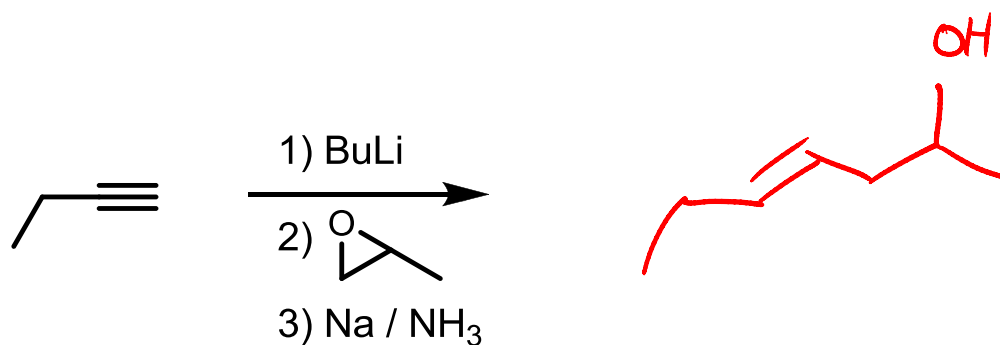
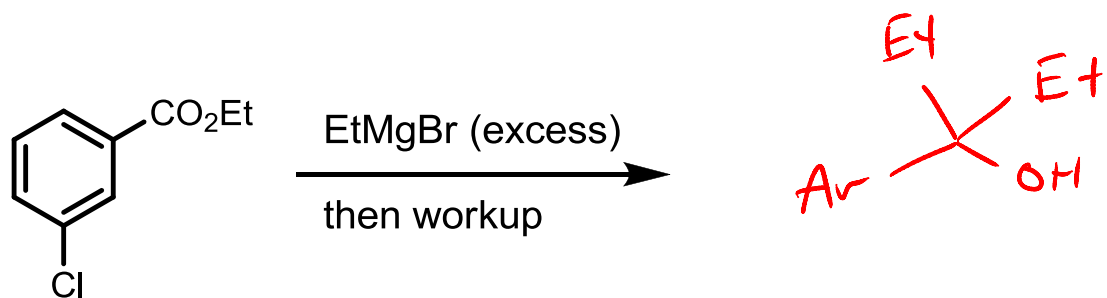
Rank the following from most reactive toward substitution under usual SN2 conditions with a #1, to the least reactive with a 6.



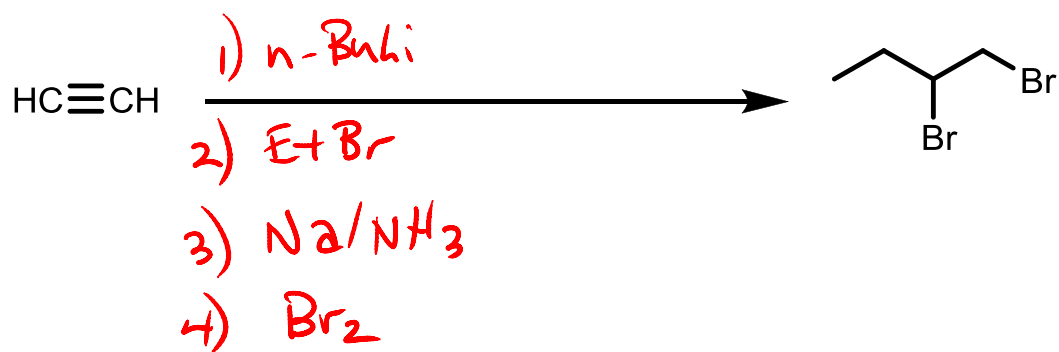
Show products for the following reactions. For some questions stereochemistry is a critical part of the answer for full marks.



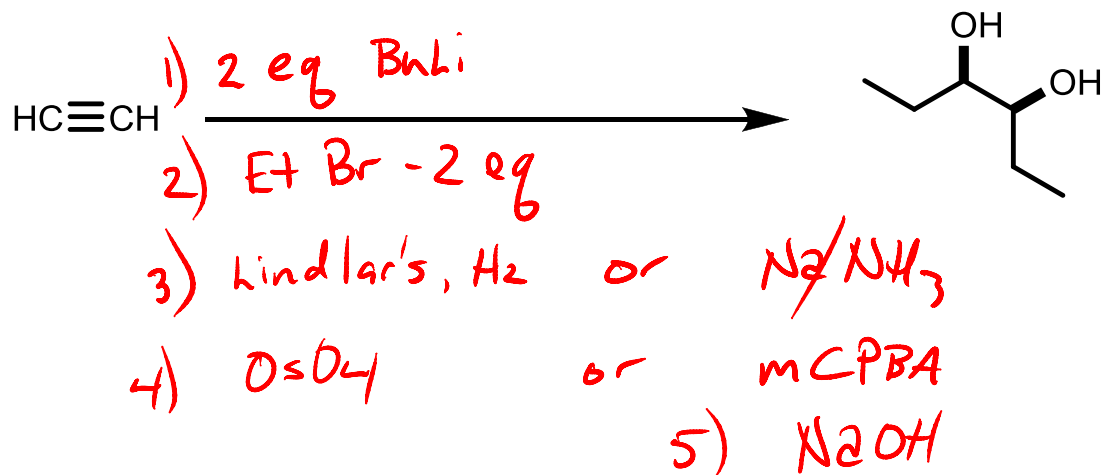




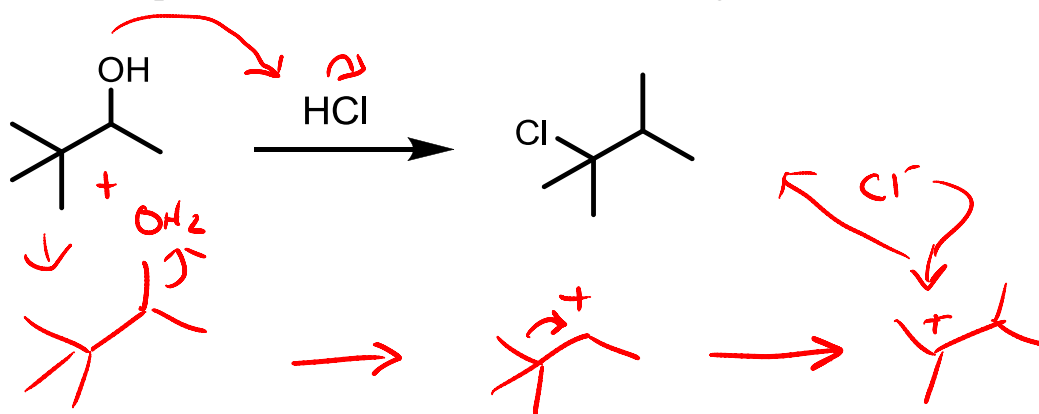
Provide reagents to effect the following transformations. More than one step may be required.



and many other options



Provide a plausible mechanism for the following transformation.



Predict the product and provide a plausible mechanism.

