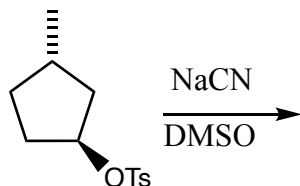
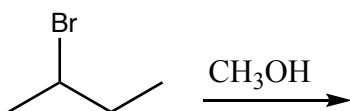


DUE: Friday January 12 in class

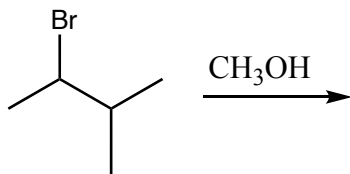
1. Draw the expected product of the following S_N2 reaction (include stereochemistry):



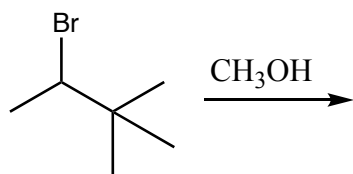
2. Draw the expected product from the following S_N1 reaction:



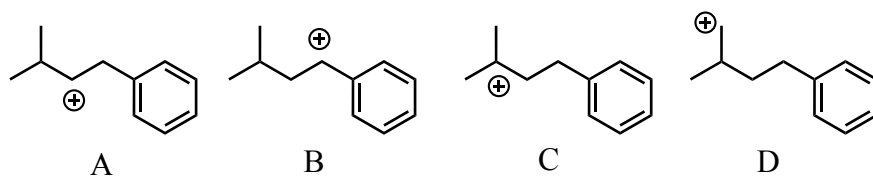
3. Draw the expected product from the following S_N1 reaction:



4. Draw the expected product from the following S_N1 reaction:

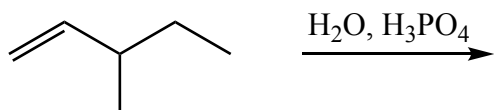


5. Which one of the following properly ranks the carbocations below in order of their stability from most stable to least stable?

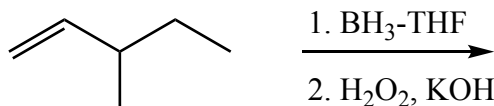


- A. C > B > A > D
B. B > C > A > D
C. C > A > B > D
D. D > C > B > A
E. B > A > C > D

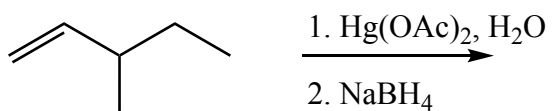
6. Predict the product from the following hydration reaction:



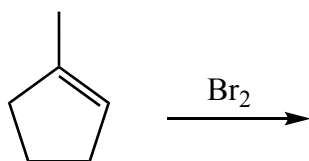
7. Predict the product from the following hydration reaction:



8. Predict the product from the following hydration reaction:



9. Predict the product from the following reaction (include stereochemistry):



10. Only 1 equivalent of reagent is added to the diene below (i.e. enough to react with ONE of the double bonds). Predict the major product.

