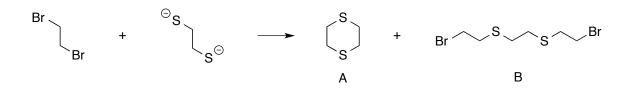
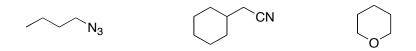
Practice Problems for Chapters 7 and 8. To be completed after completion of the problems in the text.

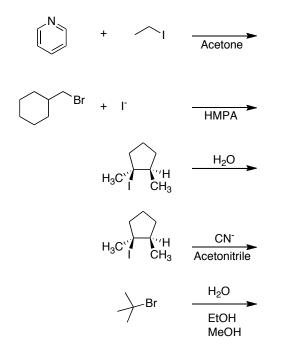
1) Using arrows, explain how the products below are formed. How might you enhance the yield of B?



2) Devise  $S_N 2$  reactions that would give the following products starting with your choice of alky halides.



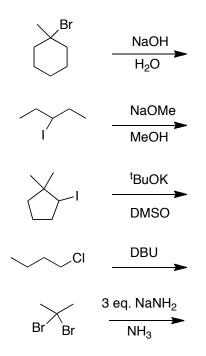
3) Predict the **major substitution product** of the following reactions and determine if they are formed from S<sub>N</sub>1 or S<sub>N</sub>2 pathways.



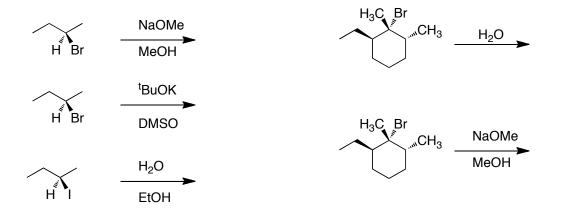
4) For the following dibromo alkane determine which position will react faster (be more reactive) under  $S_N1$  and  $S_N2$  conditions. Explain your answer.



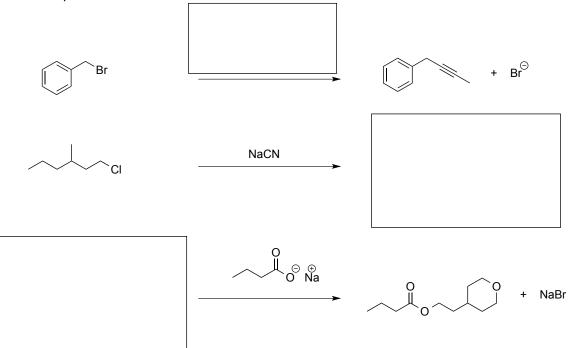
5) Predict **the major elimination product** of the following reactions and indicate if they are from E1 or E2 pathways.



6) Predict the major product in each of the following reactions and indicate if it came from an  $S_N 1$ ,  $S_N 2$ , E1, or E2 reaction.



7) For each of the following reactions, provide the appropriate reagents or products in the boxes provided.



8) Answer the following questions for the reaction coordinate diagram shown below.

