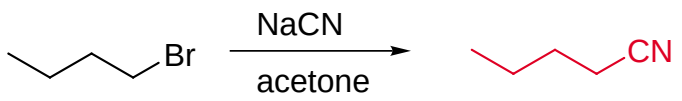
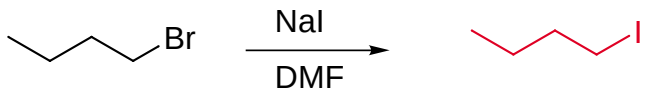
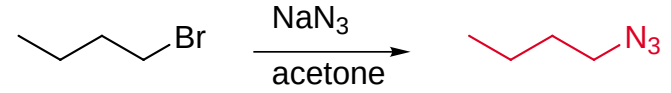
Chem 212
Alkyl halide problems 4

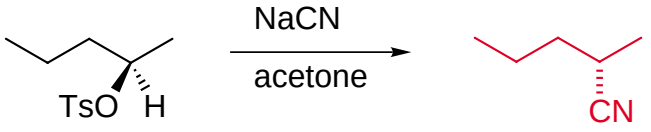
Provide the products of the following reactions. Be sure to show all appropriate stereochemistry. Show the mechanism for all the problems.

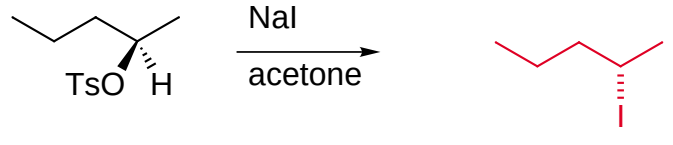
1. 

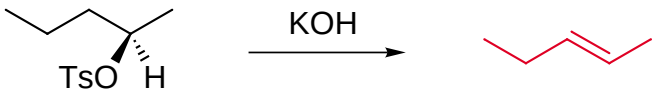
2. 

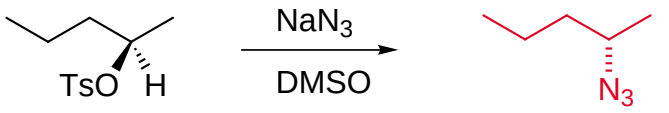
3.

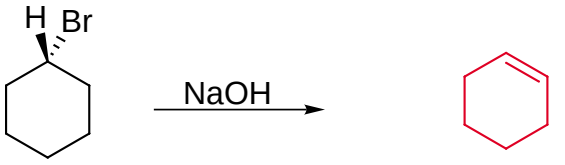
4. 

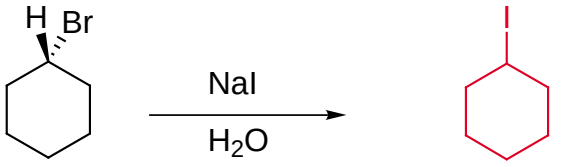
5. 

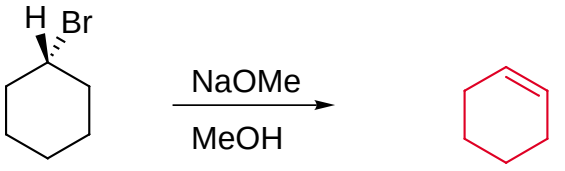
6. 

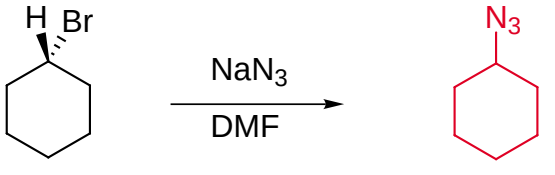
7. 

8. 

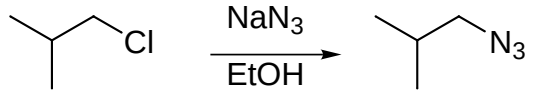
9. 

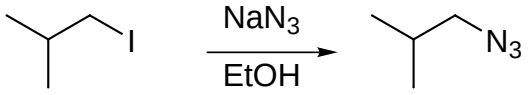
10. 

11. 

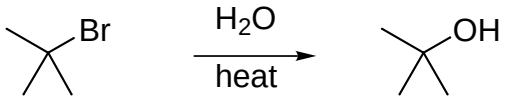
12. 

For the following pairs of reactions predict which will be faster and explain why.

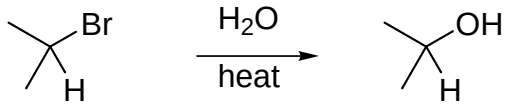
13. a) 

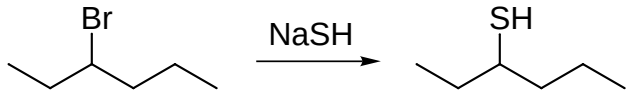
b) 

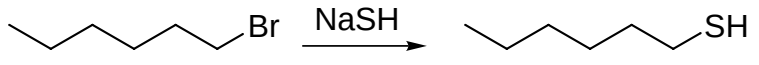
faster
better leaving group

14. a) 

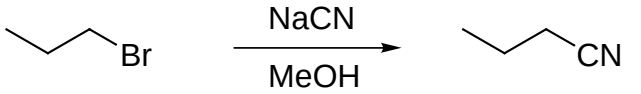
faster
tertiary carbocation
more stable

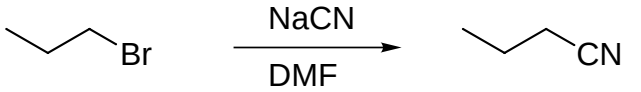
b) 

15. a) 

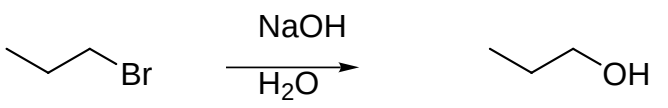
b) 

faster
primary over
secondary

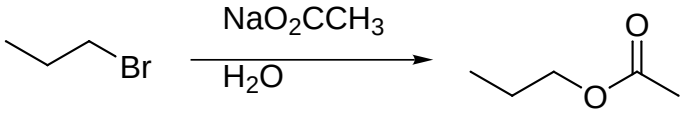
16. a) 

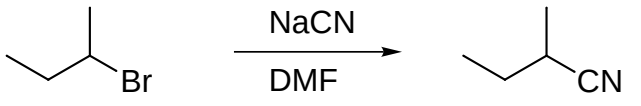
b) 

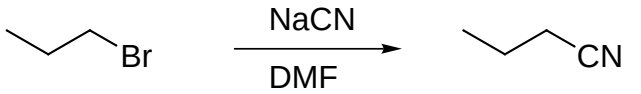
faster
polar, aprotic solvent

17. a) 

faster,
both are in a poor S_N2
solvent, but
hydroxide is better
nucleophile

b) 

18. a) 

b) 

faster
primary over
secondary