


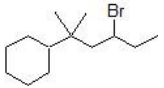



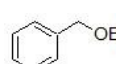

7.23: SOLUTIONS TO ADDITIONAL EXERCISES

SN2

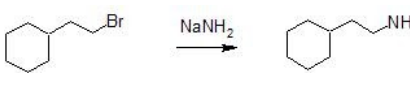
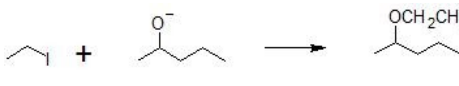
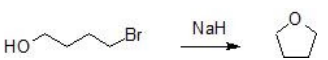
7-1

- a) 
- b) 
- c) 
- d) 

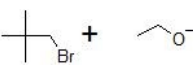
7-2

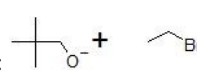
- a) 
- b) 
- c) No reaction
- d) 

7-3

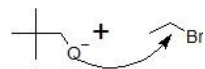
- a) 
- b) 
- c) 

7-4

First method: 

Second method: 

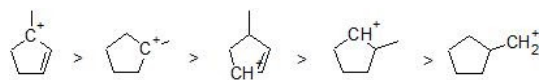
7-5 The second method is more efficient since the alkyl halide is not sterically hindered



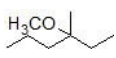
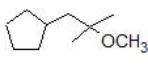
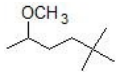
7-6 $\text{H}_2\text{O} < \text{NH}_2^- < \text{CH}_3\text{CH}_2\text{O}^- < \text{CH}_3\text{O}^-$

SN1

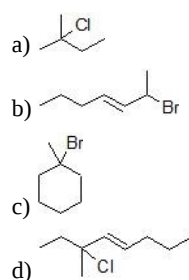
7-7



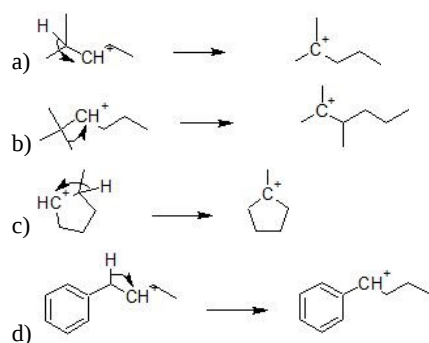
7-8

- a) 
- b) 
- c) No reaction
- d) 

7-9



7-10

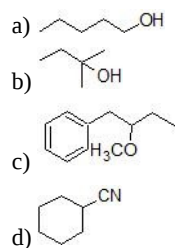


SN2 VS SN1

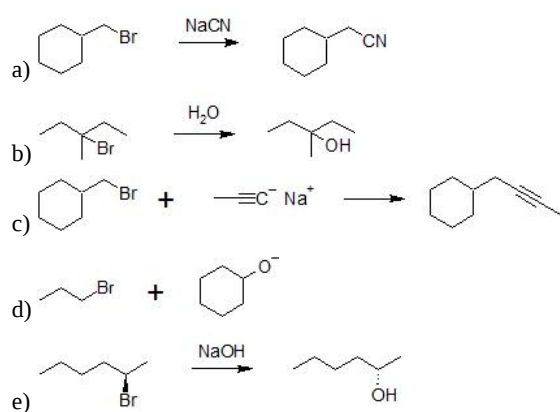
7-11

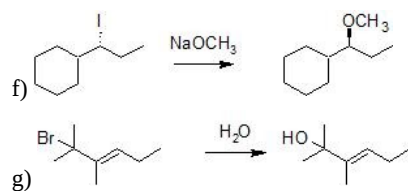
- S_N2
- S_N2
- S_N1
- S_N1

7-12



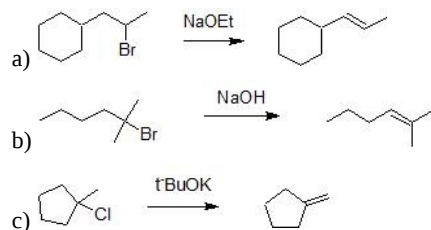
7-13



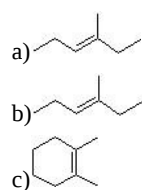


E2 VS E1

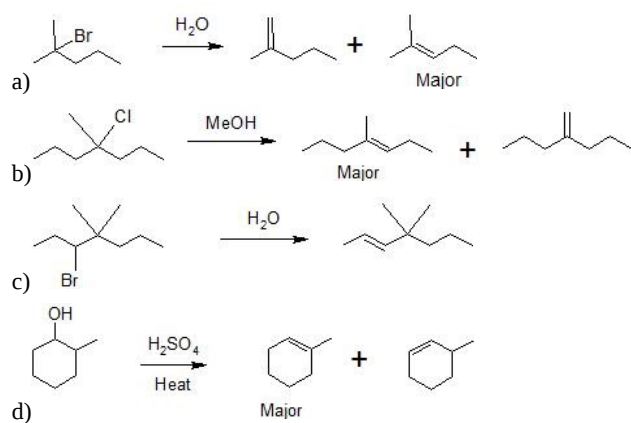
7-14



7-15



7-16



SUBSTITUTION VS ELIMINATION

7-17

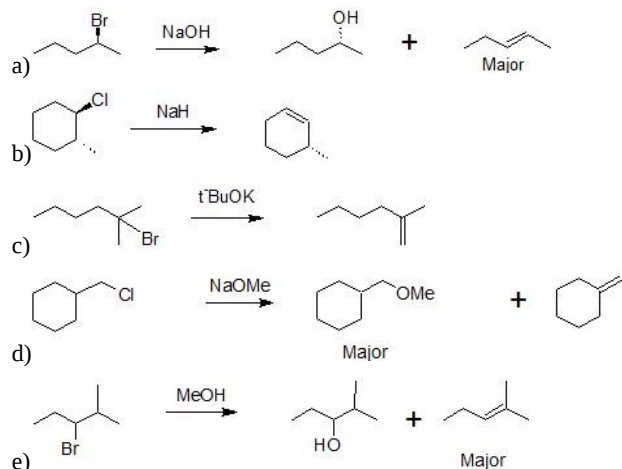
- Cl^- ; strong nucleophile
- NaH ; strong base
- t-BuO^- ; strong base
- OH^- ; strong nucleophile ; strong base
- H_2O ; weak nucleophile ; weak base
- HS^- ; strong nucleophile
- MeOH ; weak nucleophile ; weak base

7-18

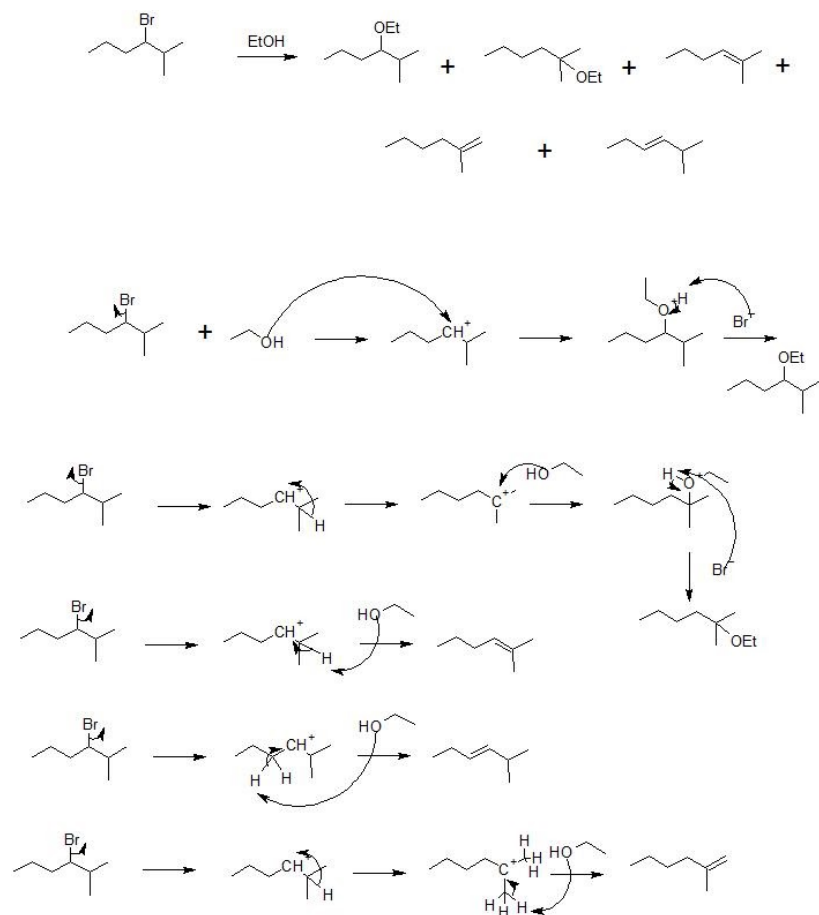
- E2 , $\text{S}_{\text{N}}1$
- $\text{S}_{\text{N}}2$, E2
- $\text{S}_{\text{N}}2$
- $\text{S}_{\text{N}}1$, E1

e) E2, S_N1

7-19



7-20



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