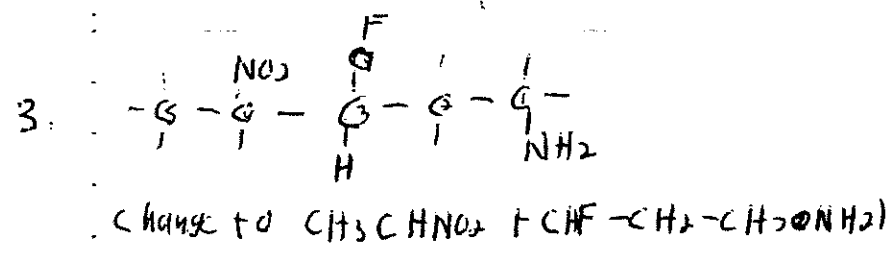
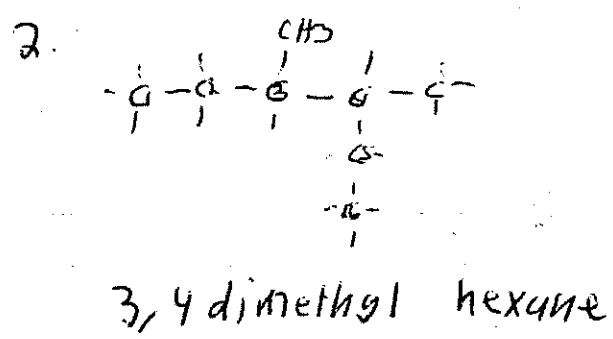
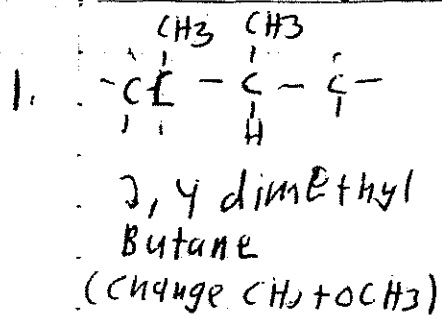
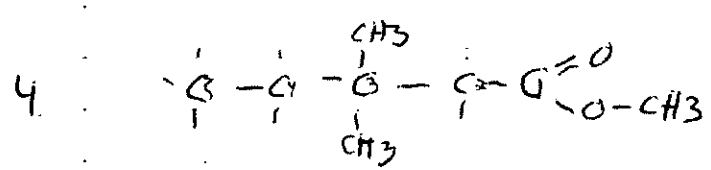


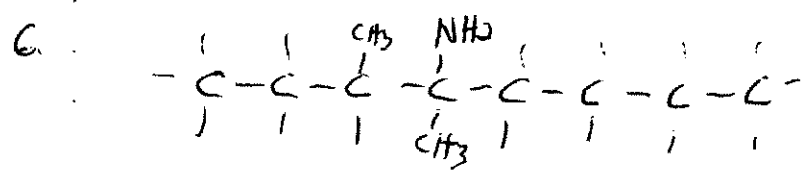
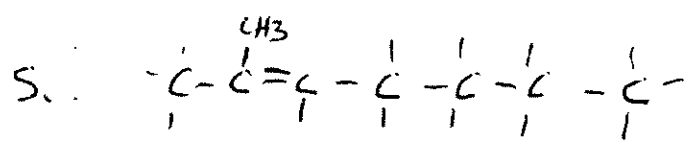
Semester Organic Review 2005 A



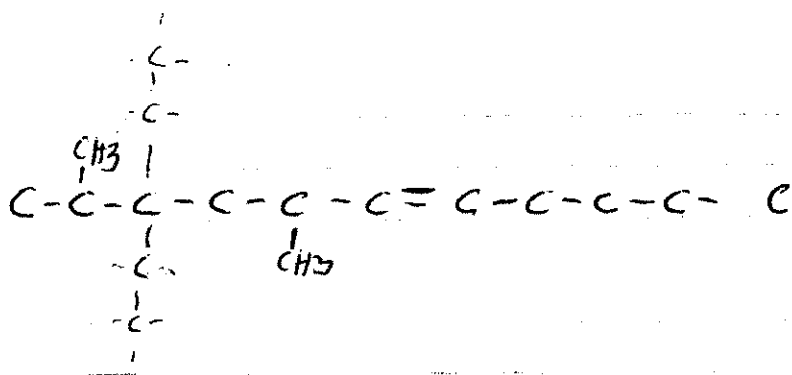
1-Amino 3-Fluoro 4-Nitro
Pentane



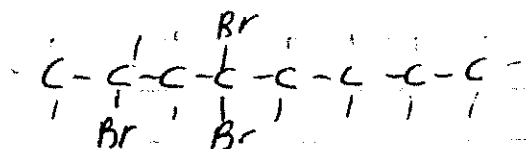
3,3-di Methyl Methyl pentanoate



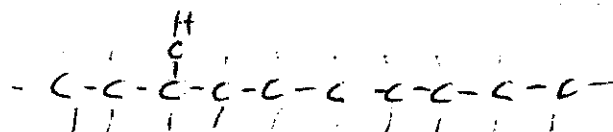
7.



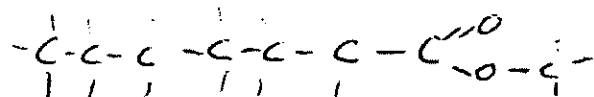
8.



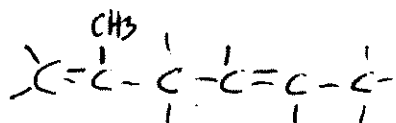
9.



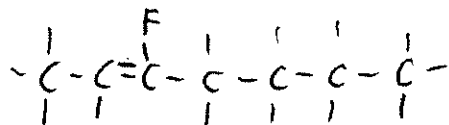
10.

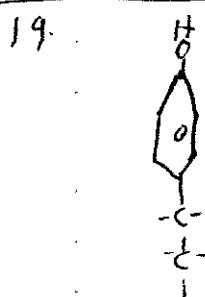
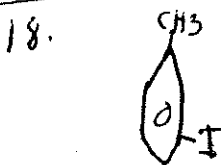
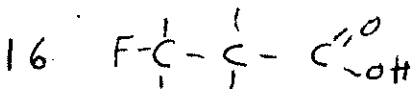
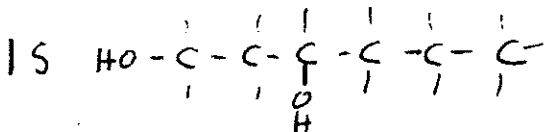
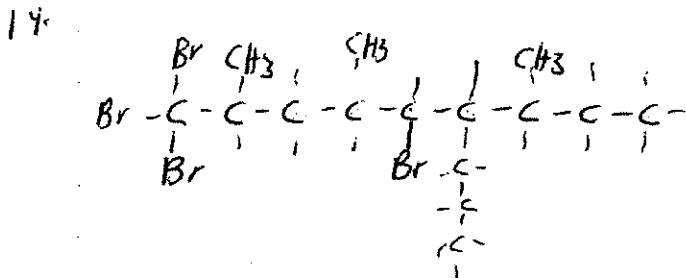
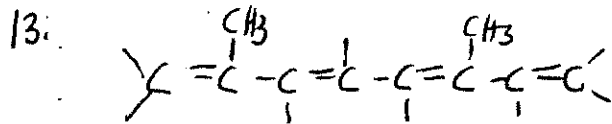


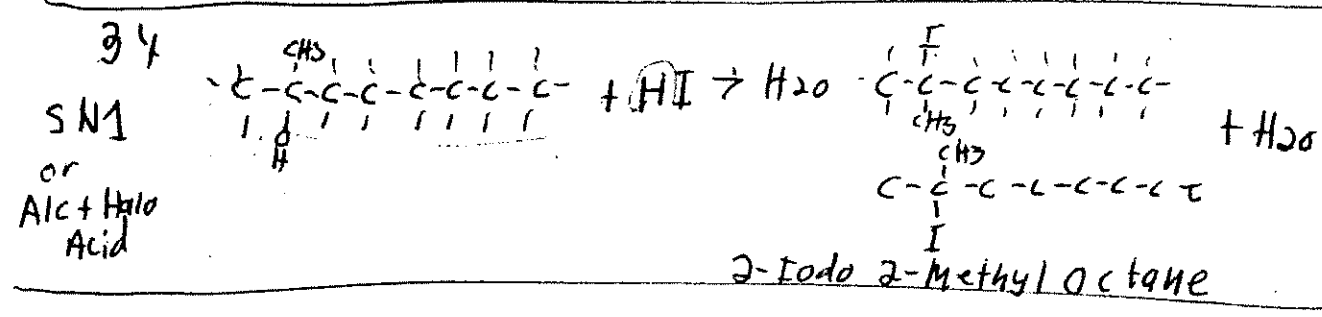
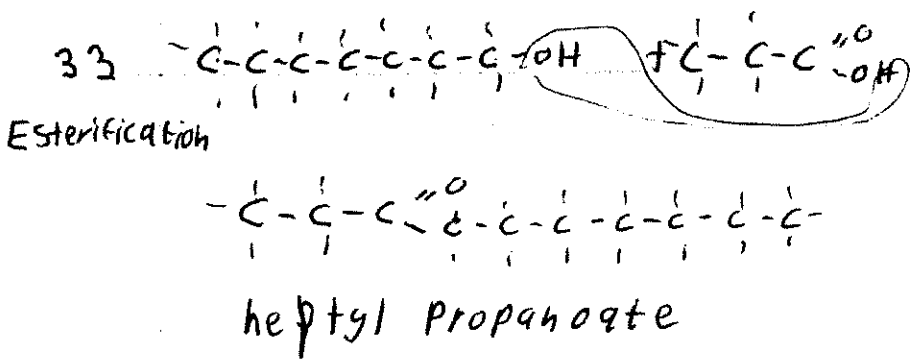
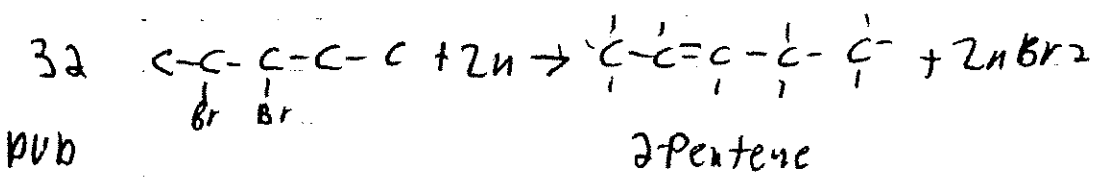
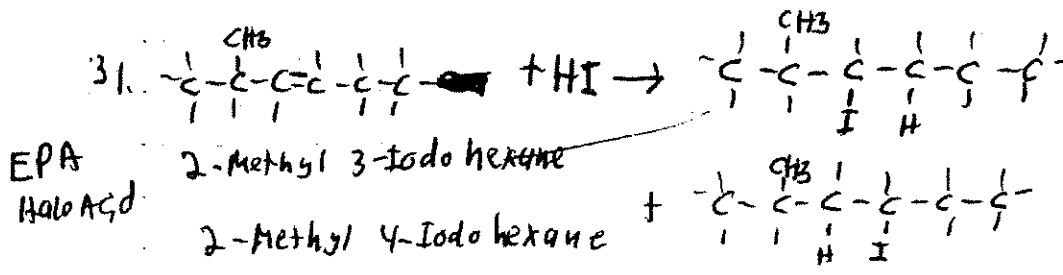
11.



12.

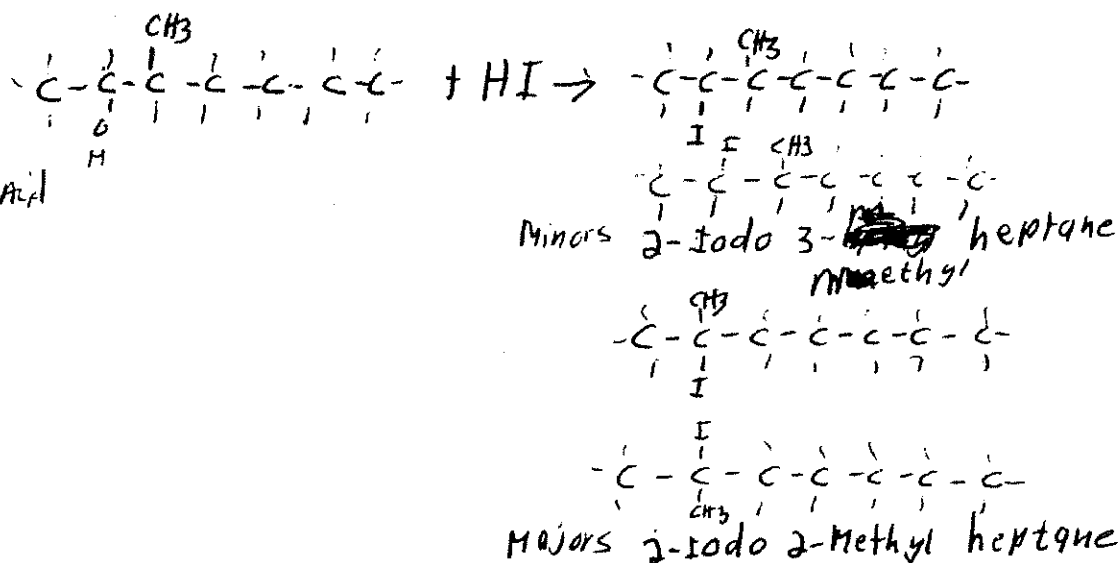






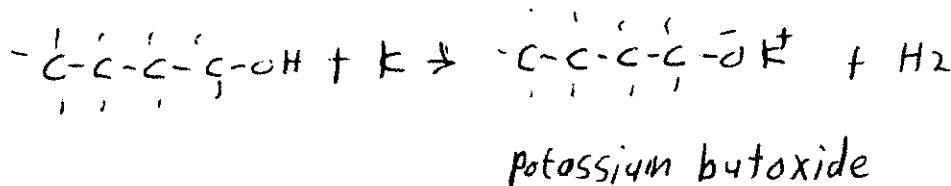
35.

SN1
or AlCl₃ HaloAl₃



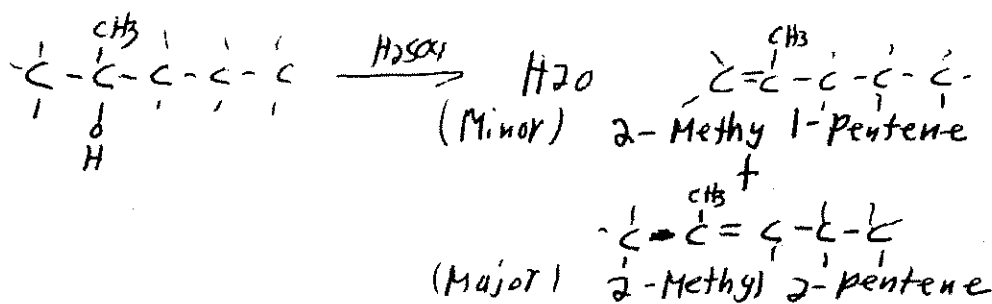
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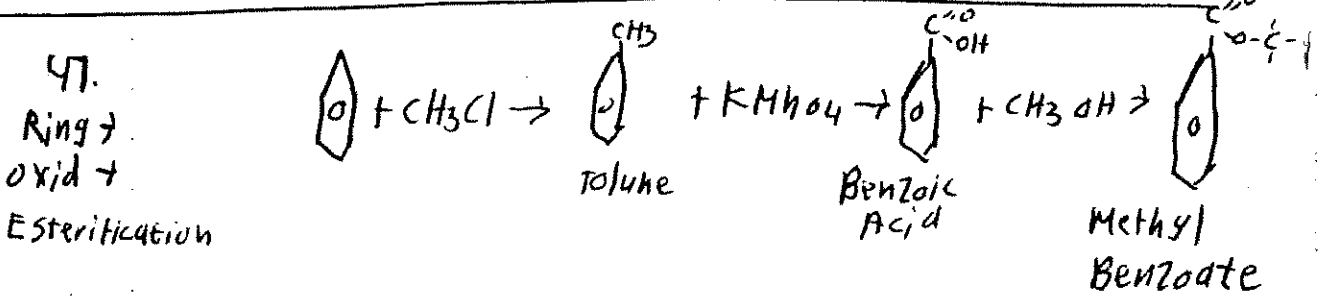
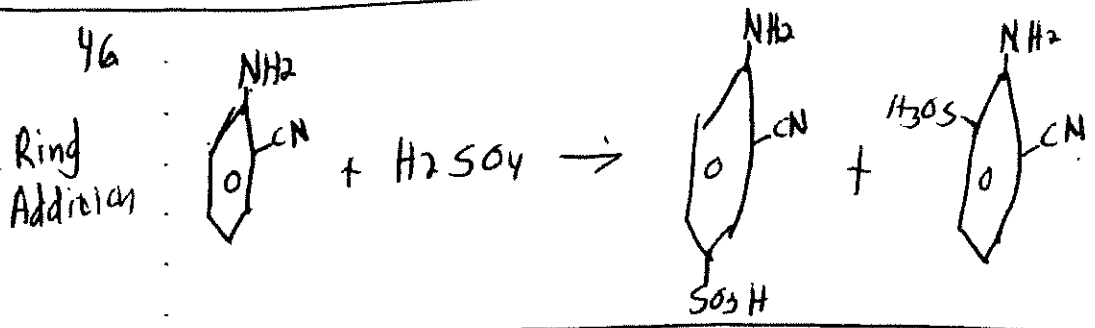
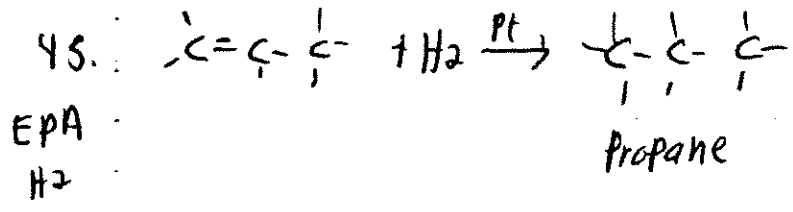
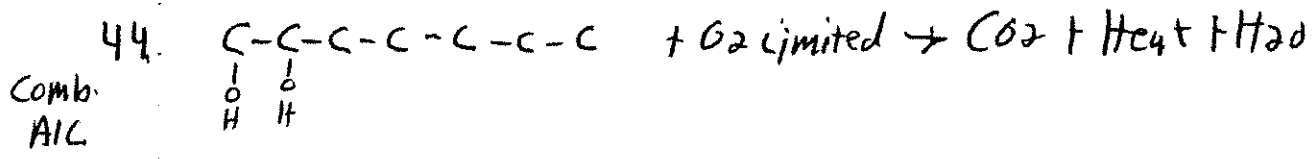
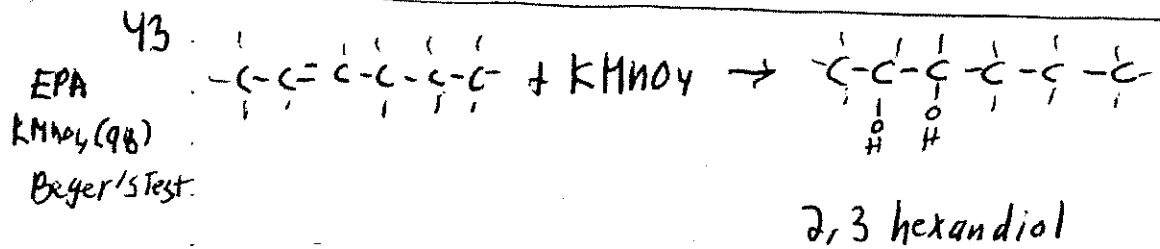
AlCl₃
Active
Metal



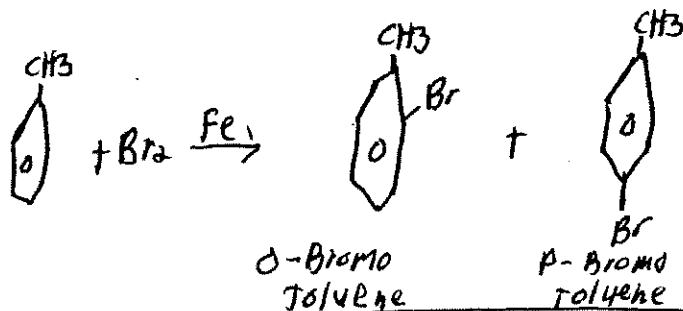
37.

Dehydration
of AlC or
E1

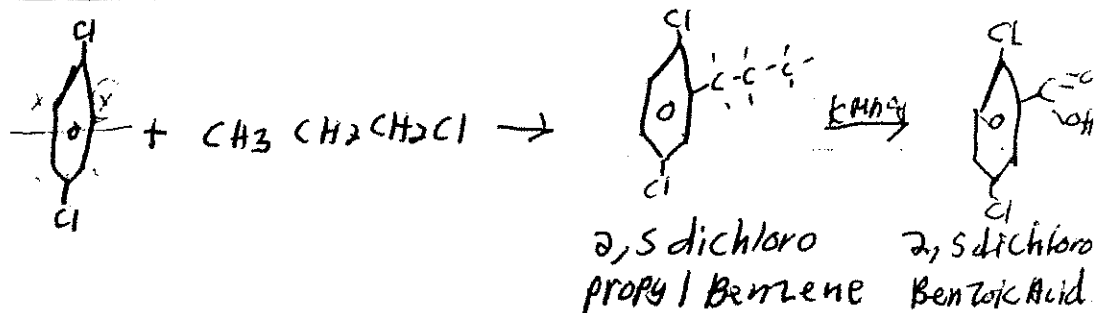




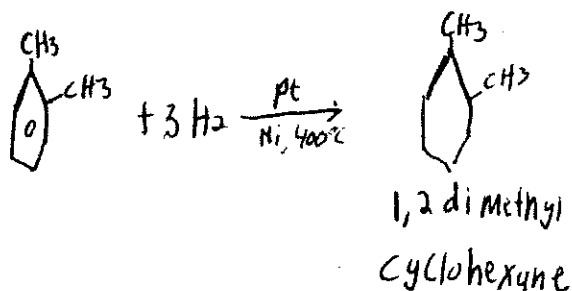
48.
Ring
Addition
Halogen



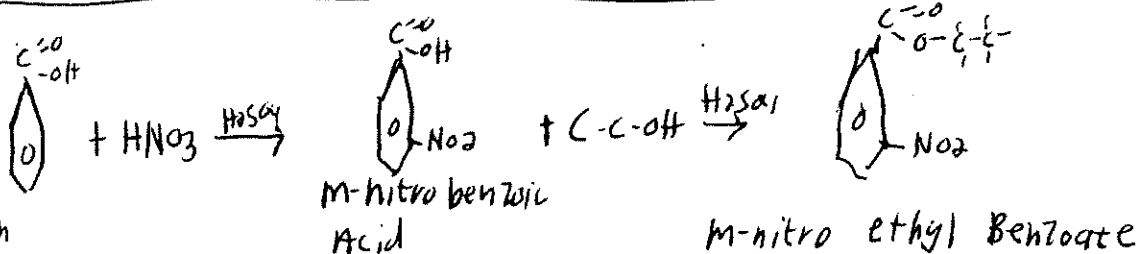
49.
Fried-Craft
→ oxidation



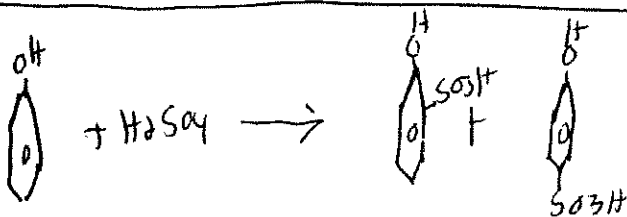
50.
Side Chain
Addition H₂
to Ring



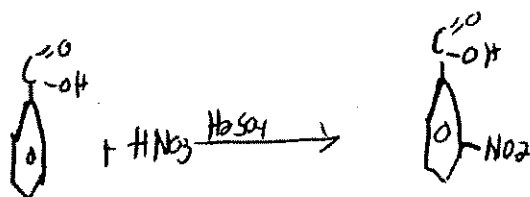
51.
Ring Nitration
→ Esterification



52.
Sulfonic
Ring Addition

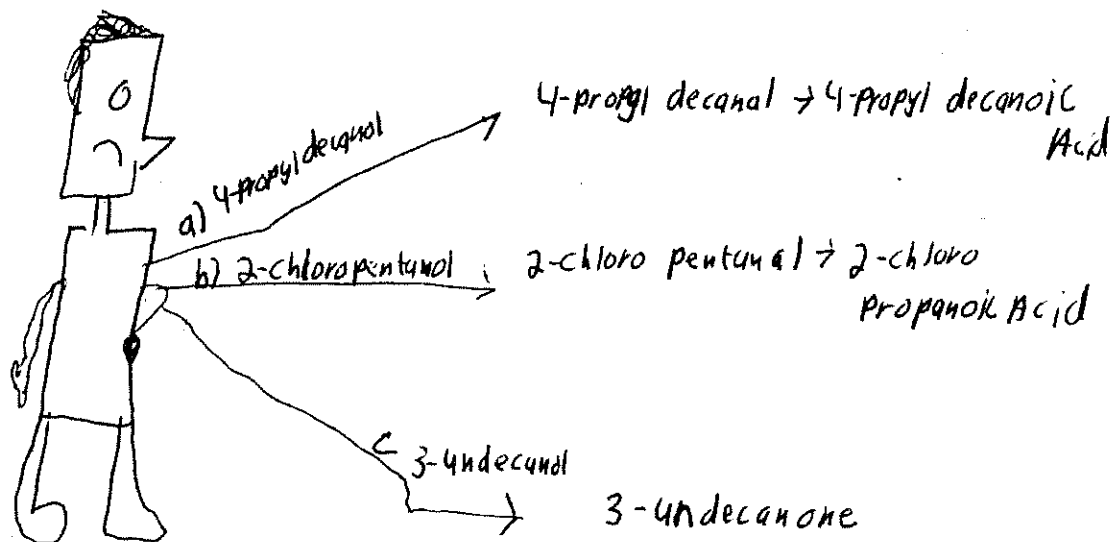


53
Ring
Nitration



- 54
1. Fermentation
 2. EPA H₂O to Alkene
 3. ~~Borane~~ EPA HydroBoration
 4. Mercurization / DeMercurization

55

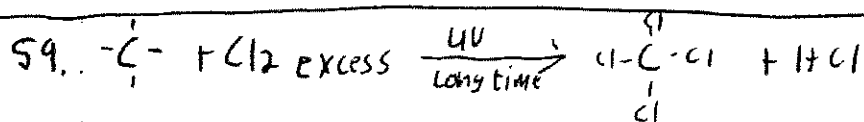


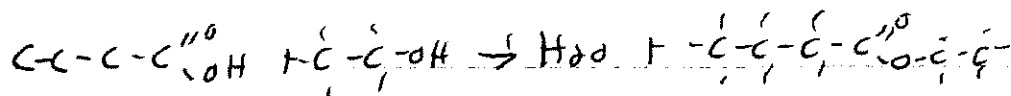
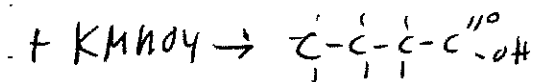
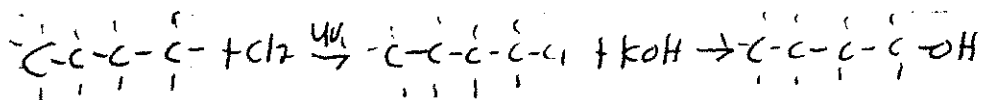
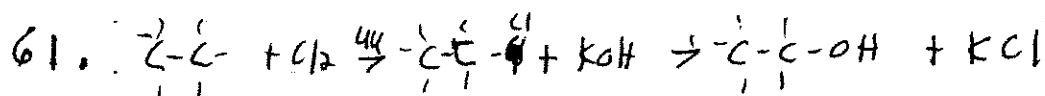
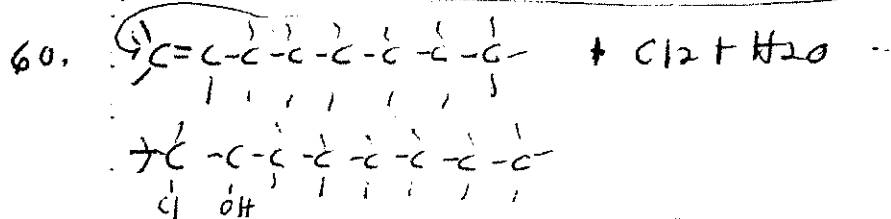
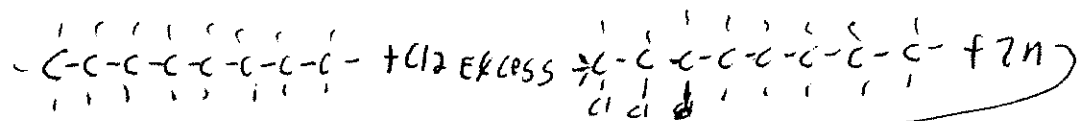
56-58 See worksheet for details

56. S

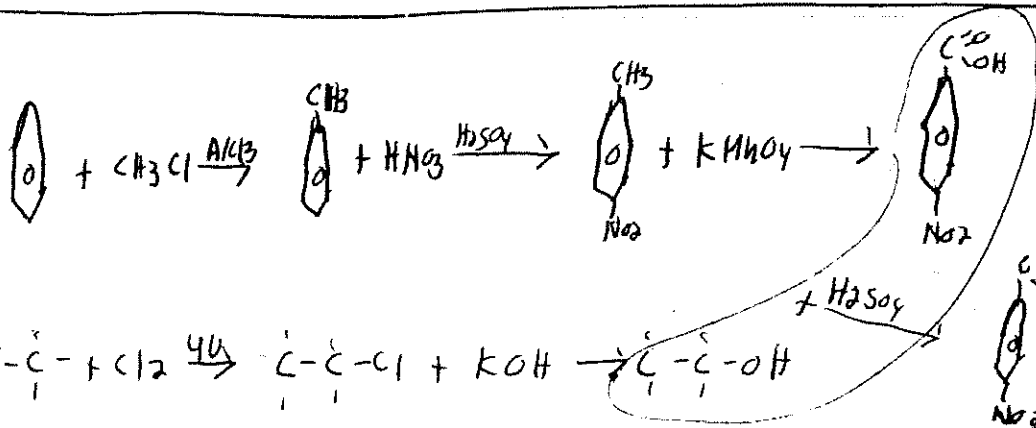
57. S, S

58. S-R





62.



63. Carbocations may:

1. - Add Nucleophile
2. Rearrange
3. Eliminate Alpha hydrogen
4. Add Alkane by Hydride abstraction
5. Add Alkene to form larger Carbocation

64. FECD BA
