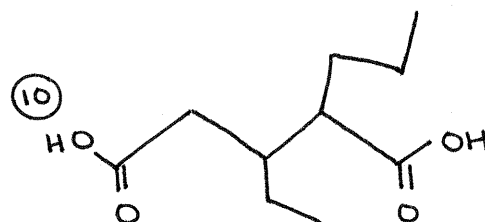
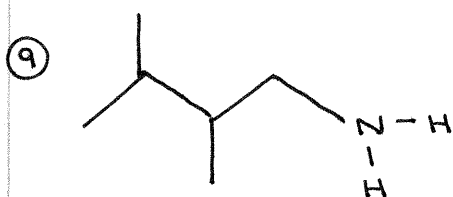
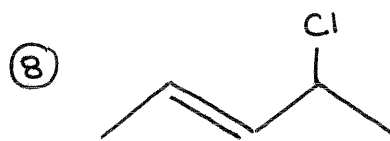
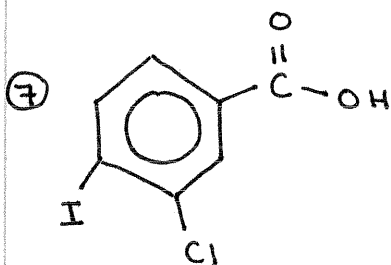
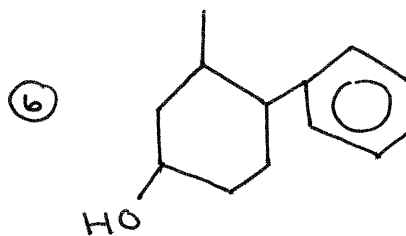
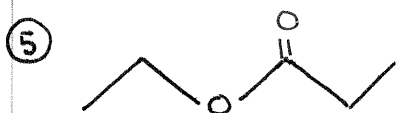
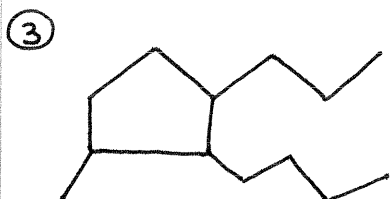
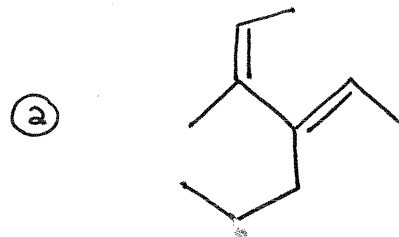
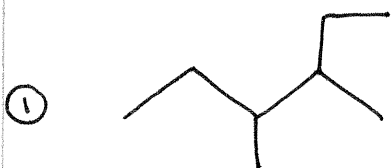


## ORGANIC CHEM REVIEW

- ① Find longest chain containing major functional group
- ② Number chain so group is lowest number
- ③ Label branches (end in "yl") and put in alphabetic order in front of the root.
- ④ Figure out reaction type by determining
  - if saturated = substitution, cracking or dehydro.
  - if unsaturated = addition
  - if attacked by  $\text{OH}^-$  = elimination
  - if OH and H can react = condensation
  - if polymerization = addition or condensation

# Organic Chemistry Review

Name the following structures:



Draw the following structures:

(11) 1,6 diamino hexane

(12) ethyl benzoate

(13) 3 ethyl, 2 methyl  
cyclopentanoic acid

(14) 3 ethyl, 2 methyl, 4 propyl  
hept-1,7 diyne

(15) 2 chloro, 4 iodo phenol

(16) 2 bromo cyclohexane

(17) 3 nonyl 5 phenyl  
non-1,5,7 triene

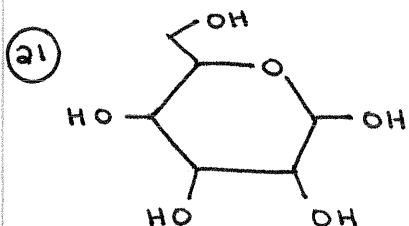
(18) 3 methyl cyclobutanol

(19) benzenoic acid

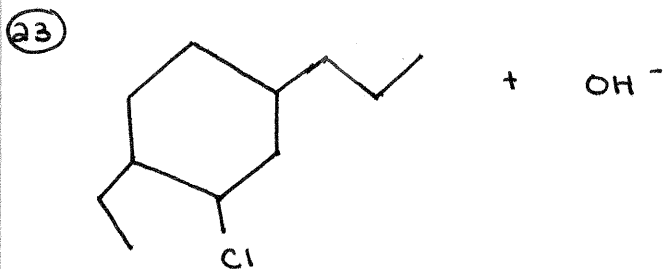
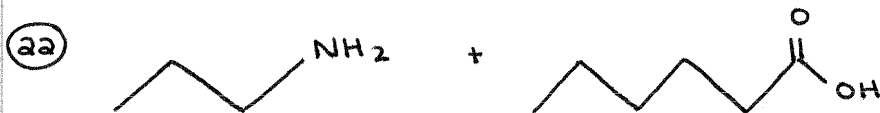
(20) 3 chloro, 4 iodo, 6 propyl  
octane

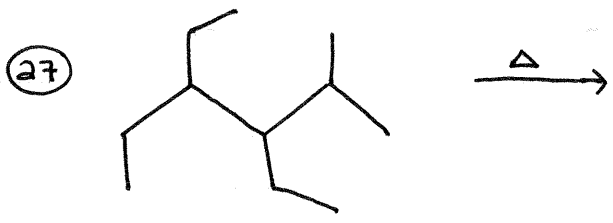
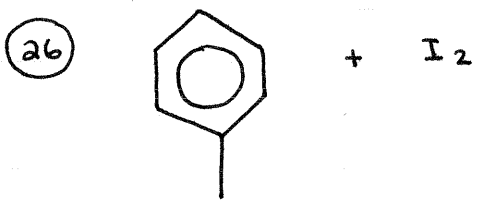
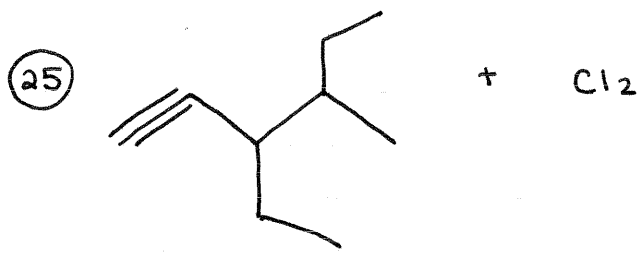
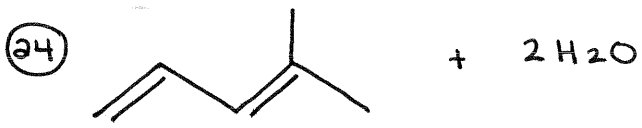
For each of the following reactions

- ① name reactants
- ② name products
- ③ draw products
- ④ show reaction arrows
- ⑤ label the type of reaction.

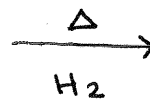
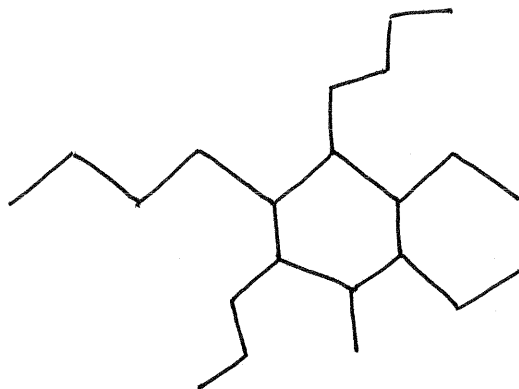


polymerization of homo monomer

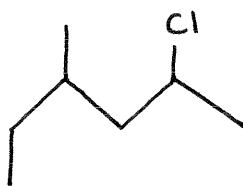




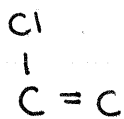
28



29



30



polymerization  
of a homo monomer