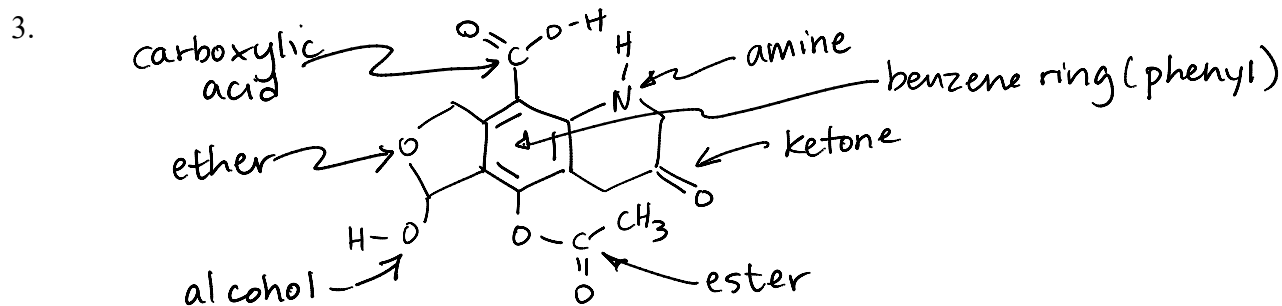
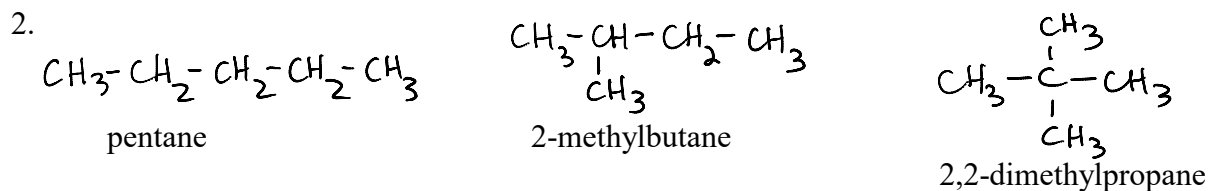


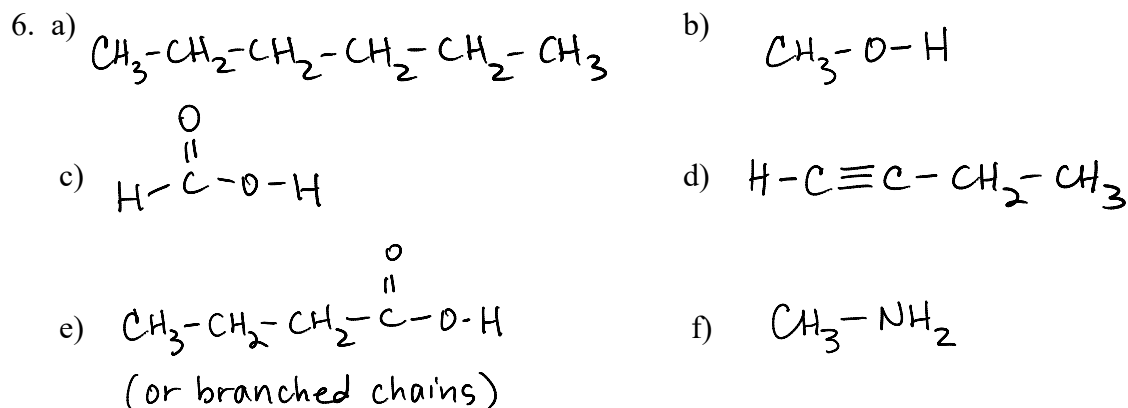
Answers to Chapter 22 Study Questions

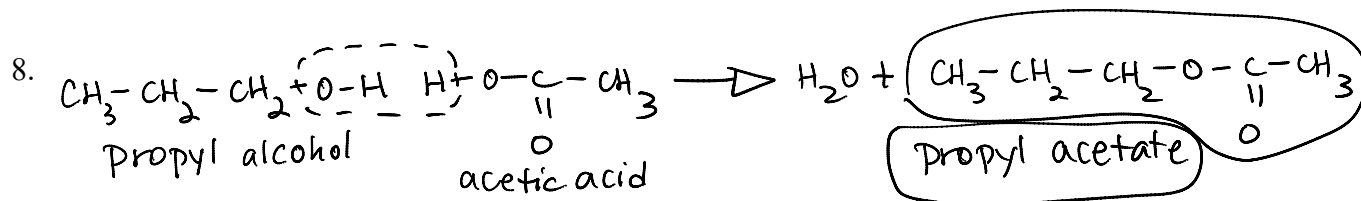
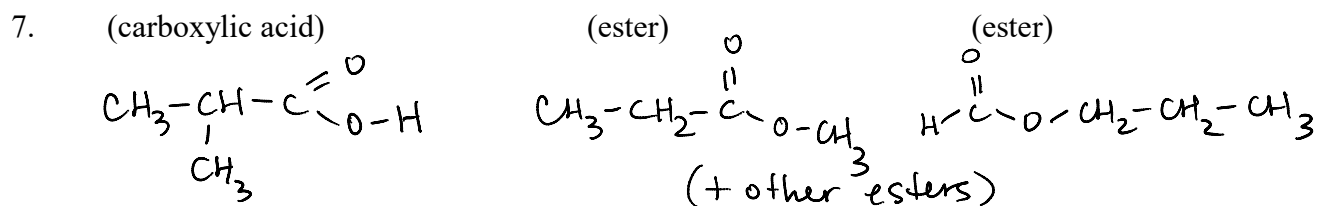
1. a) alkene, unsaturated      d) aromatic, unsaturated      g) alkyne, unsaturated  
 b) alkane, saturated      e) alkane, saturated      h) alkene, unsaturated  
 c) alkyne, unsaturated      f) alkane, saturated      i) aromatic, unsaturated



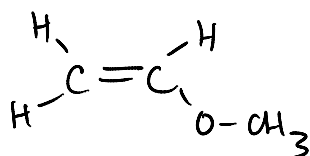
4. 4-ethyl-3,4,6-trimethyloctane

5. a) should be 2-methylbutane; counting from wrong end.  
 b) should be 3-methylhexane; you can't have 1-methyl anything  
 c) needs 2 numbers if its "di"-methyl  
 d) should be 2-methylbutane; longest chain is 4 carbons, not 3 carbons; 2-ethyl is impossible.





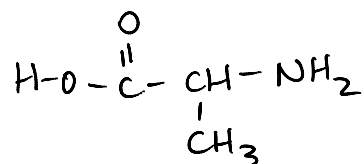
9. a) addition polymer;



b) condensation polymer, polyester, copolymer



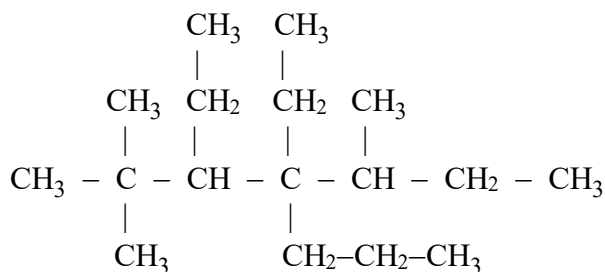
c) condensation polymer, polyamide, homopolymer; polypeptide (polyalanine)



10. a) unsaturated, 2 double bonds (see 10 b)

b) saturated (2n + 1 H's)

11.



12.

