Answer Key for Drill sheet 3

1. C. 2. C 3. A 4.B 5. A

6.

a.
$$+ \text{ NaOH} \rightarrow + \text{H}_2\text{O}$$

c.
$$H^+ +$$

d.
$$H_3CCH_2CO_2H + (CH_3)_3N$$
 CH_3 CH_3

- 8. Carboxylic acid > alcohol > ester > alkane
- 9. hydrogen bonding between molecules. The greater the hydrogen bonding between molecules, the more energy it requires to vaporize the liquid and therefore the higher is the boiling point.

CH₃CH₂CH₂COOH

pentanoic acid

2-bromo-4,5-dimethylhexanoic acid

2-bromobutanoic acid

H—C—OCH₂CH₂CH₃ propyl formate

H₃CH₂CH₂CO—C—CH₃

propyl acetate

isopropyl pentanate

formamide

N,N-dimethyl acetamide

N-methylpropanamide