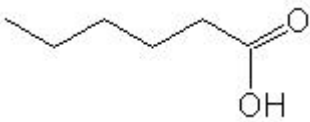
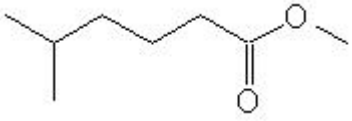
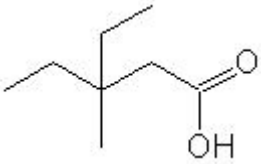
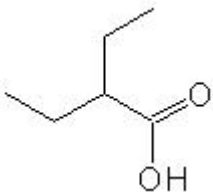
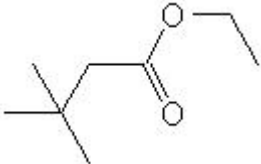
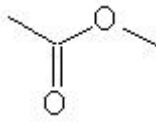
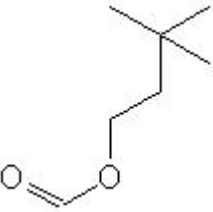
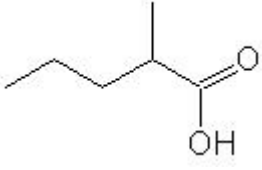
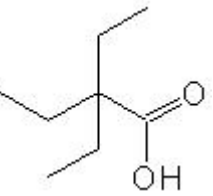
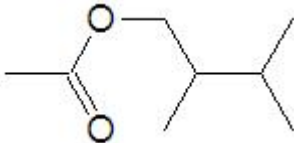


Name: _____

Date: _____

[20 pt] 1. Name the following molecules using IUPAC nomenclature:

<p>(a)</p> 	<p>(b)</p> 
<p>(c)</p> 	<p>(d)</p> 
<p>(e)</p> 	<p>(f)</p> 
<p>(g)</p> 	<p>(h)</p> 
<p>(i)</p> 	<p>(j)</p> 

CHE 102 - Homework - Ch 24a

[20 pt] 2. Draw the following molecules using line formula.

(a) 5-methylheptanoic acid

(f) 2,2-dimethylpentanedioic acid

(b) hexyl propanoate

(g) 2-chloro-3-methylpentanoic acid

(c) ethyl 2-methylbutanoate

(h) 2-chloropentyl 2-methylhexanoate

(d) p-chlorobenzoic acid

(i) 4,4-dimethylhexyl 3-methylbutanoate

(e) propyl ethanoate

(j) methyl heptanoate

CHE 102 - Homework - Ch 24a

[3 pt] 3. What is the structural difference between a saturated and unsaturated fatty acid. Draw an example of each.

[6 pt] 4. Draw each molecule in the space provided. Circle the compound in the following pairs has the higher boiling point? Explain.

(a) ethyl propanoate vs. pentanoic acid

(b) 1-propanol vs. propanoic acid

(c) pentanoic acid vs. decanoic acid

[6 pt] 5. Draw each molecule in the space provided. Circle the compound in the following pairs has the higher solubility? Explain.

(a) methyl hexanoate vs. sodium hexanoate

(b) 1-pentanol vs. pentanoic acid

(c) ethanoic acid vs. hexanoic acid

