Name: _____

Chemistry 114, Problems Set 1

Due beginning of class on Wednesday March 28, 2007

1. Draw a triglyceride containing oleic acid, palmitic acid and stearic acid (from top to bottom in that order).

2. Draw out the structure of the molecules resulting if the preceding fat molecule is saponified with KOH, and name each of them.

3. Does a unsaturated fat have a larger iodine number, or does a saturated fat have a larger iodine number?

4. Why is an oil liquid at room temperature and a fat is a solid?