REVIEW

SECTION 6.4

Acids and Bases in the Home

1. Classify the following household products as either acids or bases: _____ **a.** soaps **e.** clothing dyes _____ **b.** bleach _____ **f.** antacid _____ **c.** vitamin C _____ **g.** vinegar _____ **d.** baking soda _____ **h.** lye **2. Describe** the role of soap as an emulsifier when washing oil or grease from your hands. **3. Explain** why a substance containing only long hydrocarbon chains would not be a good emulsifier for mixtures of water and oil. **4.** Hydrogen peroxide, H_2O_2 , is a common bleaching agent and disinfectant readily available at the local drugstore as a 3 percent solution. **a. Describe** what a disinfectant does. **b. Calculate** how many grams of hydrogen peroxide must be added to 194 g of water to make a 3.0 percent solution. **c. Describe** what a bleaching agent does. **5.** Explain methanol's ability to act like an emulsifier in removing water from fuel. (Hint: Methanol has both a polar and a nonpolar end.)