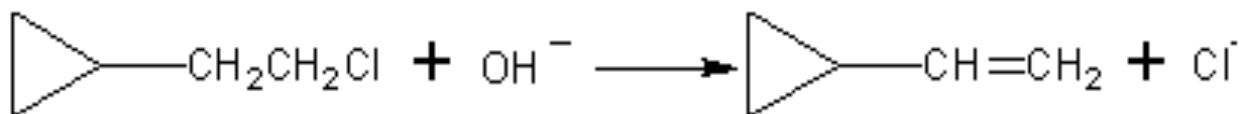


Name \_\_\_\_\_

**SCH4U: 2-4F Organic Chemistry Reactions Practice****1. Identify each type of reaction listed below:**a. Haloalkane + hydroxide ion  $\rightarrow$  \_\_\_\_\_b. Alkyne + hydrogen  $\rightarrow$  \_\_\_\_\_c. Water + ester  $\rightarrow$  \_\_\_\_\_d. Alkane + oxygen  $\rightarrow$  \_\_\_\_\_e. Secondary Alcohol + [Oxidizing Agent]  $\rightarrow$  \_\_\_\_\_f. Carboxylic acid + amine  $\rightarrow$  \_\_\_\_\_**2. What type of reaction does the equation below represent?**

Reaction \_\_\_\_\_

**3. Which group of these compounds tends to be the most reactive?**

a. alkanes

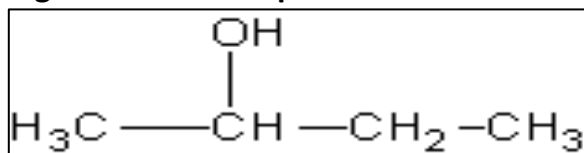
c. alkynes

b. alkenes

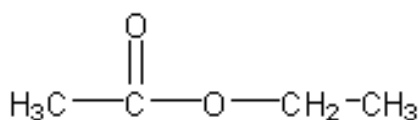
d. aromatics

Name \_\_\_\_\_

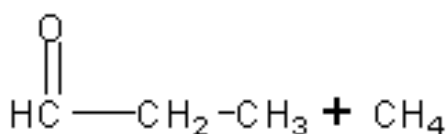
4. Which of the following is an oxidation product of the outlined compound below?



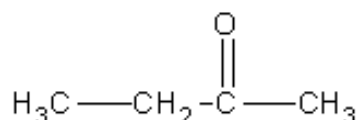
a.



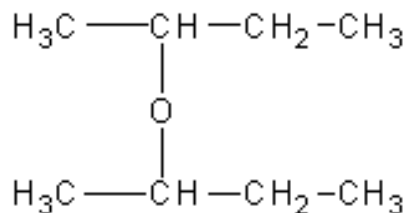
b.



c.



d.



5. When excess hydrogen bromide is added to pentyne, the possible product is which of the following?

a. 1,1-dibromopentane

c. 1,1,2,2-tetrabromopentane

b. 1,2-dibromopentane

d. 2,2-dibromopentane

6. Which type of reaction will an alkene not undergo?

a. addition

c. dehydration

b. oxidation

d. hydration

7. The correct synthesis of octane would involve which of the following reactions?

a. dehydrogenation of 2-octene

c. hydrogenation of 3-octene

b. halogenation of 4-octene

d. reduction of isooctane

Name \_\_\_\_\_

**8. In a chemistry lab, you are asked to react a solution of bromine with each of the following unknown liquids. Which one decolourizes the bromine solution (bromine is brownish-orange in colour)?**

a. 2,3-dimethylbutane

c. cyclohexene

b. ethanoic acid

d. n-methylmethanamide