HOMEWORK ASSIGNMENT #6 ORGANIC CHEMISTRY I (20 pts)

due Monday 15 October

*Naming Alkyl Halides : reactions to RX*

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.1. Name or draw us: (1 pt each answer) 9 total**





**a) b)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(functional name) (functional name)**

**(substitutive= IUPAC name) (substitutive= IUPAC name)**



**c) d)**

**draw: 1,4-dimethylhexyl fluoride here**

**e)**

 **(substitutive =IUPAC name )**

 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(functional name)**

 **f) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Draw 1,1,2-trimethylbutyl bromide IUPAC name for Freon 12**

**6.2. Predict the most likely product(s) of the reactions proposed below: (1 pt/box)**

11 pts total

a) 3-methyl-2-butanol + SOBr2

b) t-butanol + t-butyl chloride (40% yield/2 h)

Markovnikoff add of Br

c) (CH3)2C=CH2 +



d)

 +

e) CH2=CH-CH3 + light CH2=CH-CH2Br