HOMEWORK ASSIGNMENT #6 ORGANIC CHEMISTRY I (30 pts)

**Naming RX; Reactions to and from RX**

**(due Wednesday 19 October)**

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

6.1. Name or draw us: (1 pt each answer) 8 pts total





**a) b)**

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

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

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

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

**c) d)**

**draw: 1,4-dimethylhexyl fluoride draw: 1,1,2-trimethylbutyl bromide**

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



 **Draw: isohexyl chloride (functional name)**

6.2. Fill in the boxes: part 1 (12 pts/ 1 pt per box)

1)

 + SOCl2

 1-chlorobutane

 pyridine

2)



3)



\_\_\_\_\_\_/12

4)



5)



 **+ 2-bromo-2-methylpentane**

Markovnikoff add of Br

6) (CH3)2C=CH2 +

**6.3. Fill-in the Boxes: Part 2 (11 points/1 point per box)**



 + H2O + Br-

 +

 b)

 NaOH + 3-methyl-2-octanol



 c)

 +



d) CH3CH2-Br +

e) CH3 CH2 Br + H2S neat +

 {H+(HS-)}



f) +

\_\_\_/18