

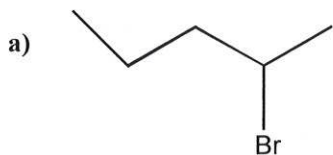
HOMEWORK ASSIGNMENT #6 ORGANIC CHEMISTRY I (30 pts)

Naming RX; Reactions to and from RX

(due Wednesday 21 October)

Your name: Answers

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



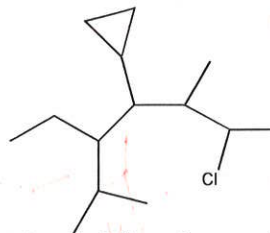
1-methylbutyl bromide

(functional name)

2-bromopentane

(substitutive= IUPAC name)

b)

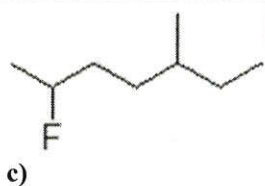


4-ethyl-1,2,5-trimethyl-3-cyclopropylhexyl chloride

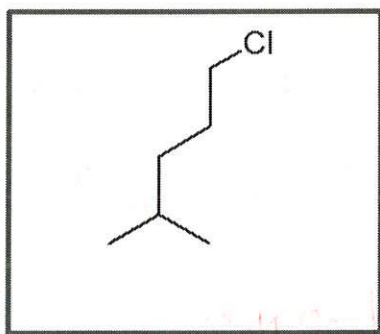
(functional name)

2-chloro-5-ethyl-3,6-dimethyl-4-cyclopropylheptane

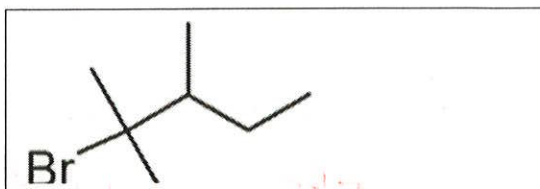
(substitutive= IUPAC name)



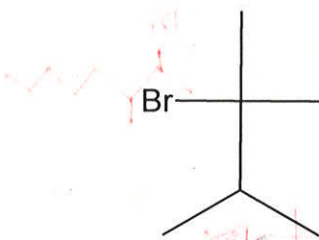
draw: 1,4-dimethylhexyl fluoride



Draw: isohexyl chloride



draw: 1,1,2-trimethylbutyl bromide

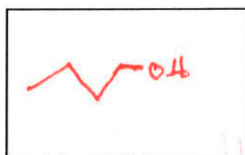


1,1,2-trimethylpropyl bromide

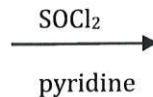
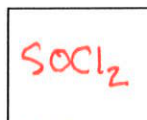
(functional name)

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

1)

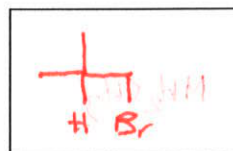
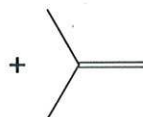


+



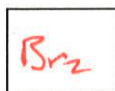
1-chlorobutane

2)

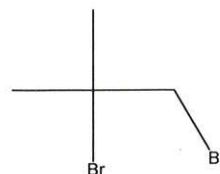
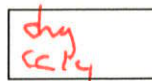
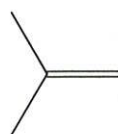


anti-Markovnikov addition

3)

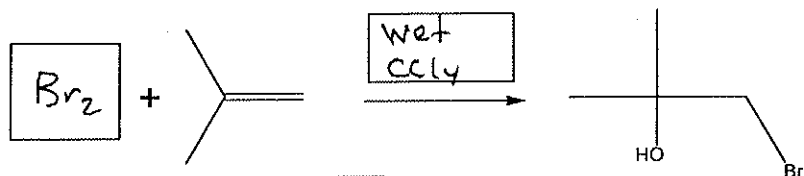


+

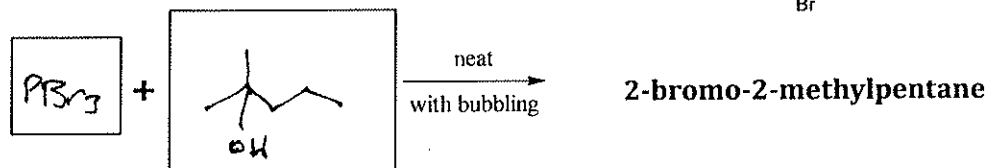
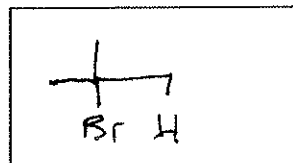
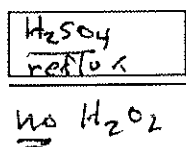


____/12

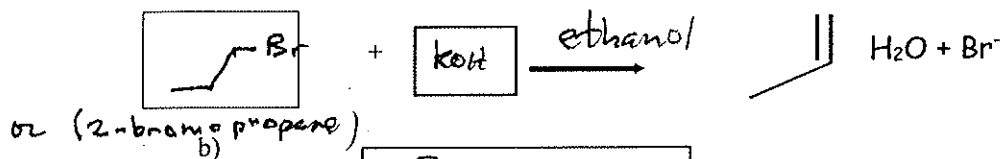
4)



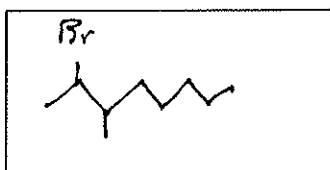
5)

6) $(\text{CH}_3)_2\text{C}=\text{CH}_2$ + HBr Markovnikoff
add of Br

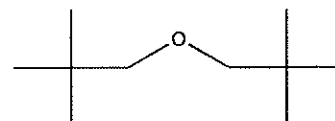
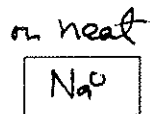
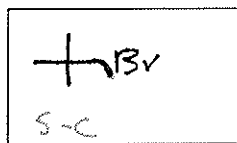
6.3. Fill-in the Boxes: Part 2 (11 points/1 point per box)



NaOH +

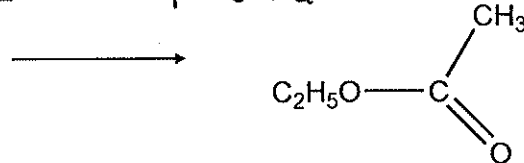
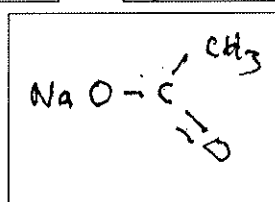
 $\longrightarrow$ 3-methyl-2-octanol

c)



di-tertbutyl ether

d)

 $\text{CH}_3\text{CH}_2\text{-Br}$ +

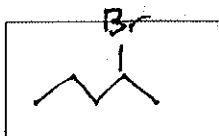
e)

 $\text{CH}_3\text{CH}_2\text{Br} + \text{H}_2\text{S}$
 $\{\text{H}^+(\text{HS}^-)\}$
 $\xrightarrow{\text{neat}}$ $\text{CH}_3\text{CH}_2\text{-SH}$

+

 HBr

f)



+

