

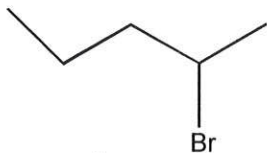
HOMEWORK ASSIGNMENT #6 ORGANIC CHEMISTRY I (30 pts)

Naming RX; Reactions to and from RX (due Wednesday 22 October)

Your name: _____ answers _____ 1 pt

6.1. Name or draw us: (1 pt each answer) 10 pts total

a)



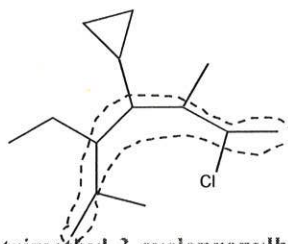
1-methylbutyl bromide

(functional name)

2-bromopentane

(substitutive= IUPAC name)

b)



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

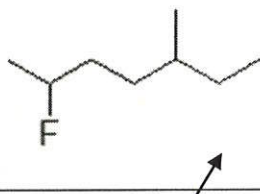
(functional name)

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

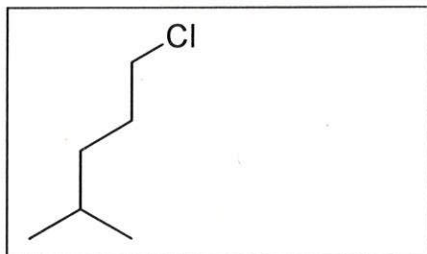
(substitutive= IUPAC name)

a) in cyclo ignored; just substituent Carbon count determines alphabetization
b) Pick parent chain that maximizes substituent count)

c)

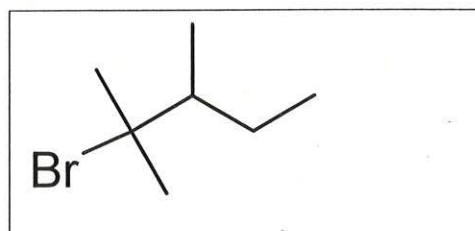


draw: 1,4-dimethylhexyl fluoride



Draw isohexyl chloride

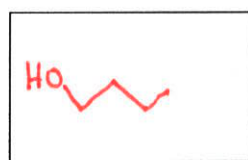
draw: 1,1,2-trimethylbutyl bromide



1,1,2-trimethylpropyl bromide

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

1)



+



SOCl_2

pyridine

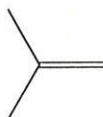
1-chlorobutane

Modern, solution
phase
halogenation

2)

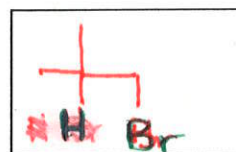
$\text{H}-\text{Br}$

+



H_2SO_4

H_2O_2

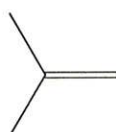


anti-Markovnikov
addition

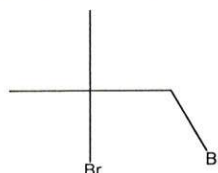
3)

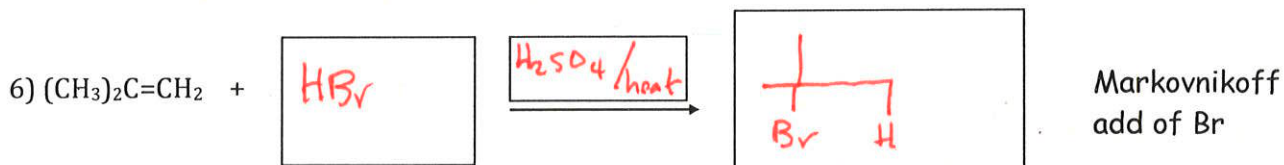
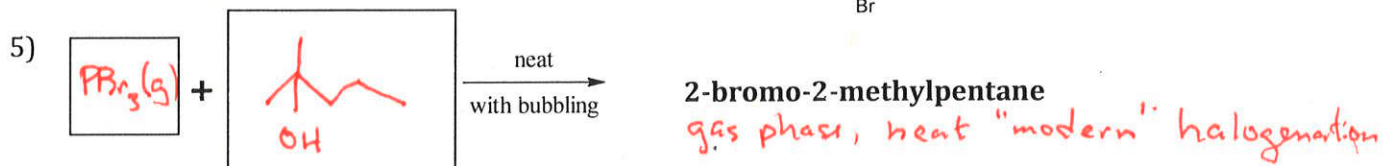
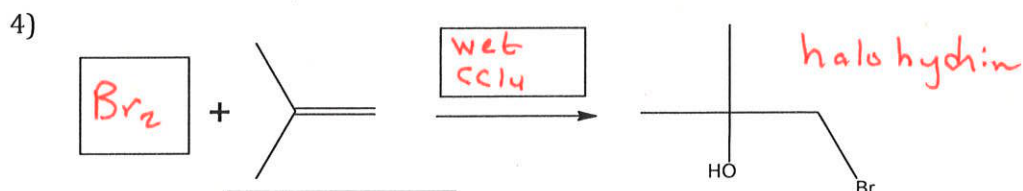
Br_2

+

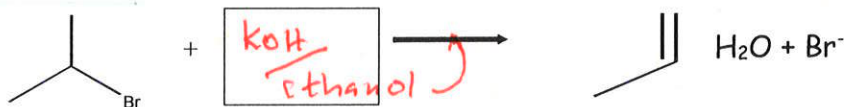


dry CCl_4





6.3. Fill-in the Boxes: Part 2 (10 points/1 point per box)



dehydrohalogenation
(Elimination)

