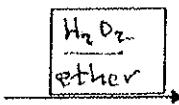
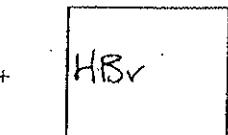
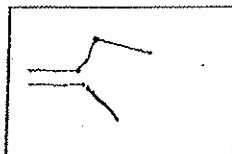


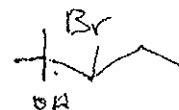
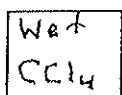
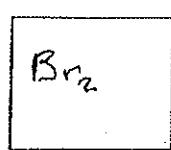
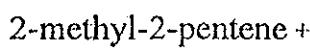
exercise #18 boxing lessons with alkenes
 carbocation, halo hydrin and radical additions and alkene syntheses
 Organic Chem I Alfred State College

1)

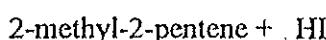


1-bromo-2-methylbutane

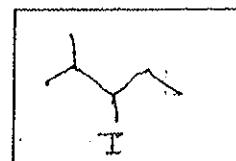
2)



3-bromo-2-methyl-2-pentanol

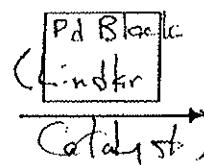
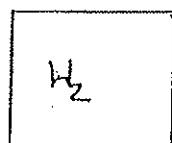
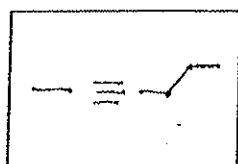


Peroxide/acetic acid



ant: Mark.
add.

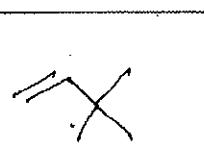
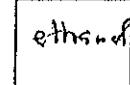
4)



Z-only 2-hexene

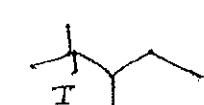
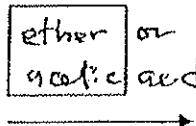
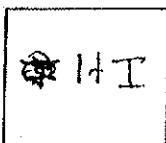


5)

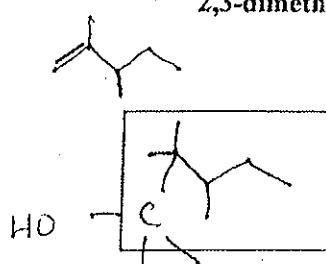


only

6)

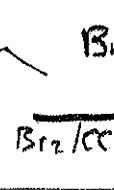
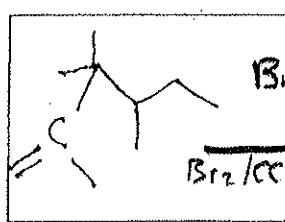


2,3-dimethyl-2-iodopentane

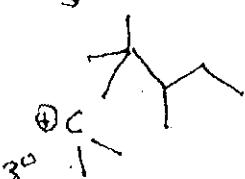


$\text{H}^+/\text{H}_2\text{O}$ Acetone in dry ether

Phosphoric
acid/reflux

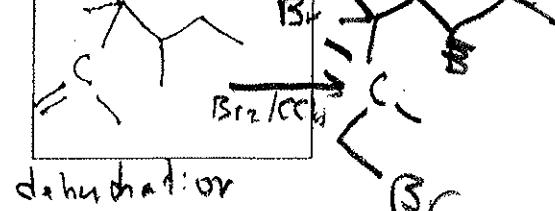


rearrange? if no rearrangement



\rightarrow

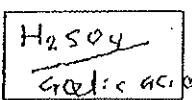
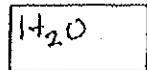
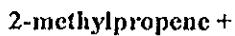
no higher degree carbocation
So no rearrangement



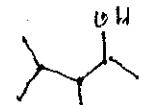
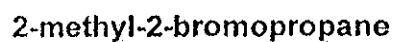
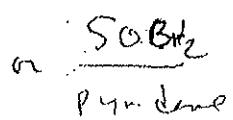
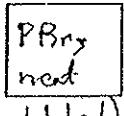
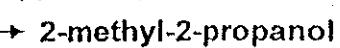
dehydration or

exercise 18(continued)

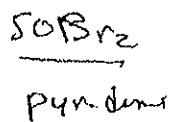
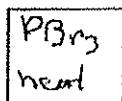
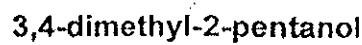
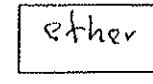
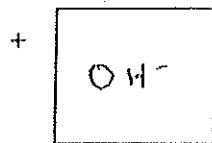
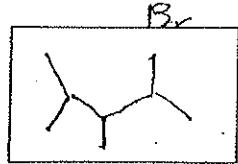
7)



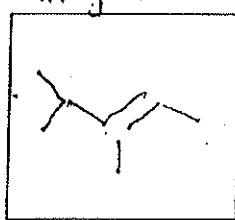
(bubbled)



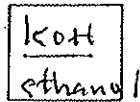
8)



major



+ 3,4-dimethyl-1-pentene
(minor)

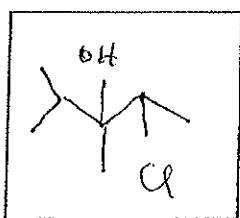
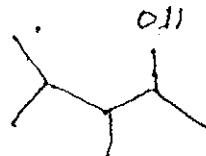


cont. add. of $H_2O - H$

Cl_2 in wet CCl_4

Cone
sulfuric
acid

3,4-dimethyl-2-pentanol
(where it all began...)



then H_2O

