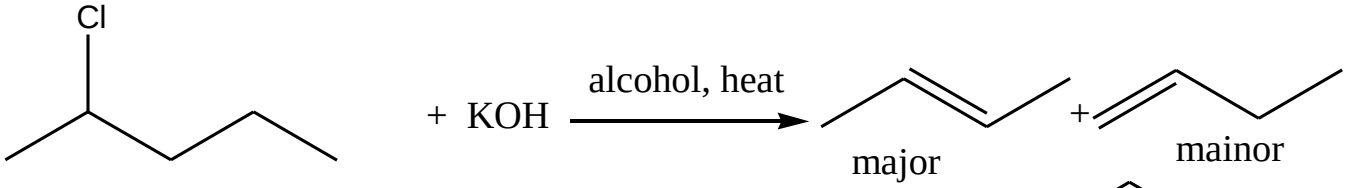
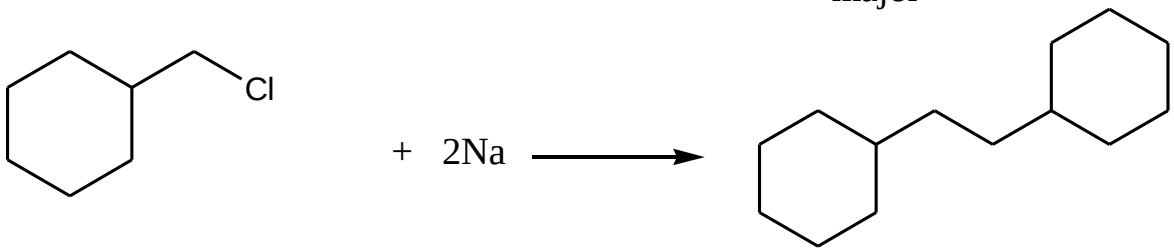
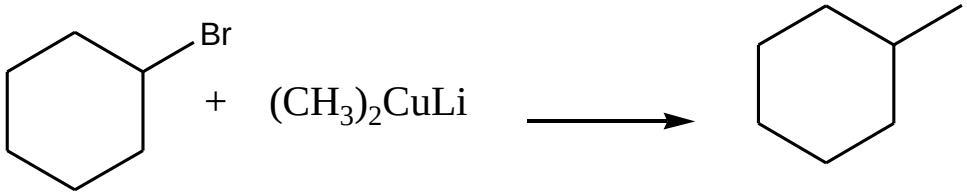
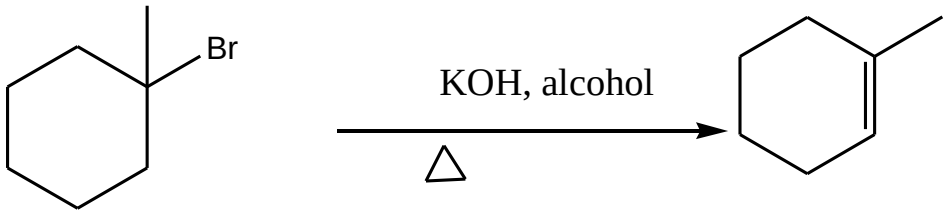
Exercise Ch 1& 2 & 3

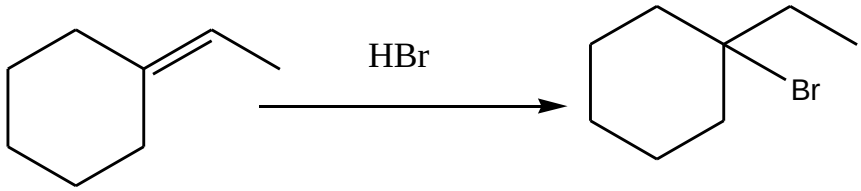
What is the product of the following reaction

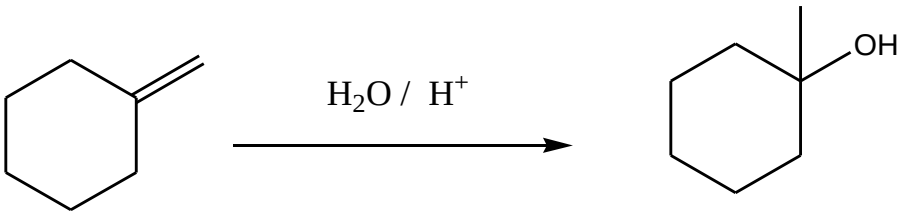


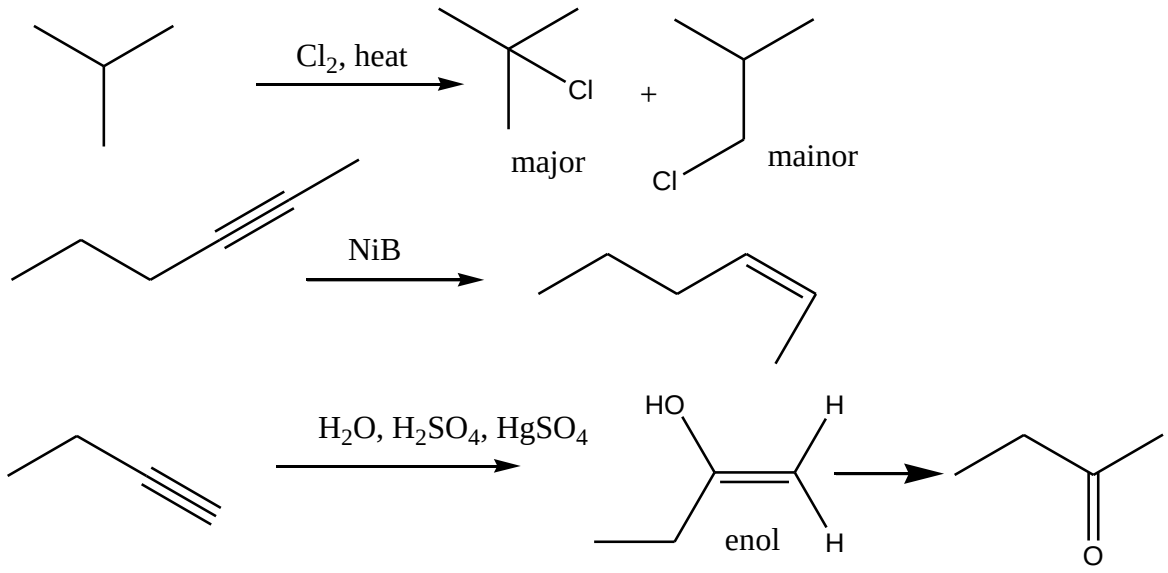












What is the best reagent used for the following reaction?

a) Conc H_2SO_4 b) KOH/Alcohol/heat c) Zn/acetic acid d) Br_2, H_2O

A compound has the molecular formula of C_6H_{12} reacts with ozone to yield two moles of a single product with molecular formula of C_3H_6O. The IUPAC name of this C_6H_{12} is :

a) Cyclohexane. b) 2-Hexene.

c) Cyclohexene. d) 2,3-Dimethyl-2-butene.

Which of the following is a correct name according to IUPAC rules?

a) 2-Methylcyclohexane b) 2-Ethyl-2-methylpentane

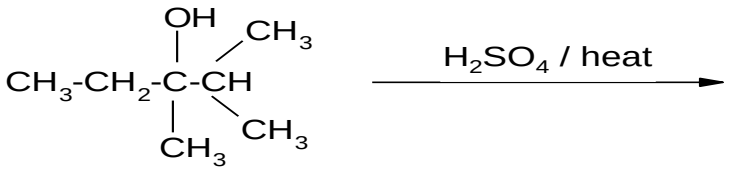
b) 3,4-Dimethylpentane d) 3-Ethyl-2-methylpentane

Which of the following compounds will show geometrical isomerism?

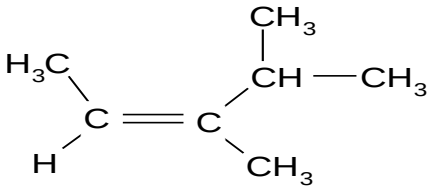
a) $CH_2=CHCl_2$ b) ClCH=CHBr

c) $CH_2=CHCl$ d) $Cl_2C=CBr_2$

What is the major product of the following reaction?



a)



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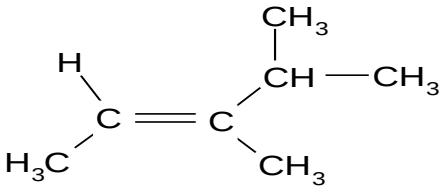
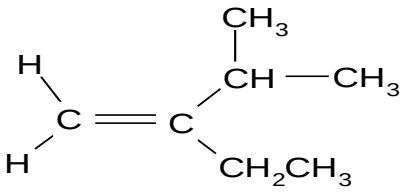
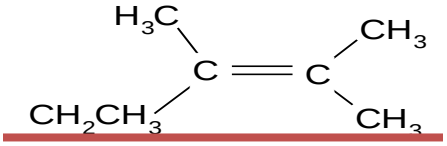
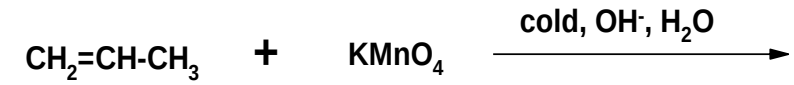


c)



d)





a) $CH_2(OH)-CH_2-CH_3$

b) $CH_3-CH_2-CH_3$

c) $CH_2(OH)-CH(OH)-CH_3$

d) $CH_2(OH)-CH_2-CH_2(OH)$

Good Luck