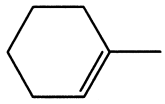
Chapter 13: "Alicyclics" Worksheet

1. Give the structures and of the chief organic products expected from the reaction of

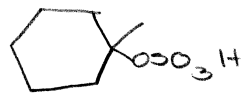


with:

HBr

"Mark"

H_2SO_4



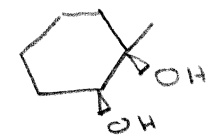
"Mark"

H_2O, H^+

"Mark"

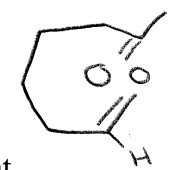
$KMnO_4$

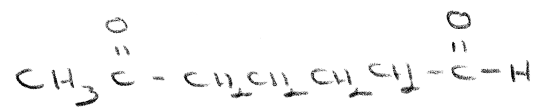
OR



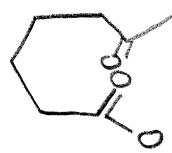
"Syn"

O_3; then Zn/H_2O





$KMnO_4$, heat



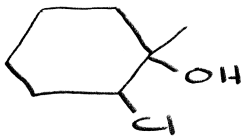
H_2O, $Hg(OAc)_2$; Then $NaBH_4$

"Mark"

$(BH_3)_2$; Then H_2O_2, NaOH

"Anti-Mark"

Cl_2(aq)

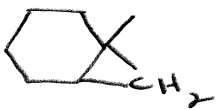


"Cl" as electrophile

HBr, peroxides

"Anti-Mark"

CH_2N_2, hν



PBA