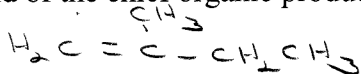
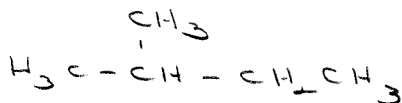


## Chapter 8: "Alkenes: Reactions" Worksheet

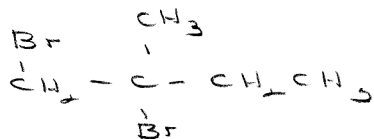
1. Give the structures and of the chief organic products expected from the reaction of 2-methyl-1-butene with:



H<sub>2</sub>, Pt

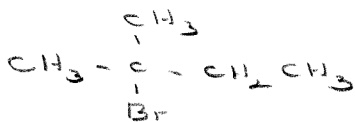


Br<sub>2</sub>/CCl<sub>4</sub>



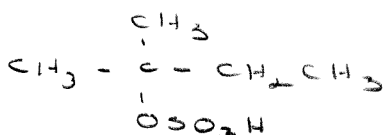
"Anti"

HBr



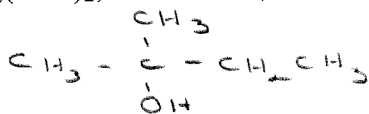
"Mark"

H<sub>2</sub>SO<sub>4</sub>



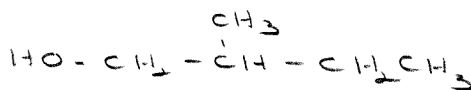
"Mark"

H<sub>2</sub>O, Hg(OAc)<sub>2</sub>; then NaBH<sub>4</sub>



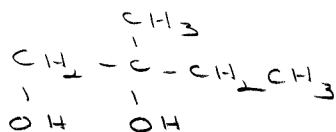
"Mark"

(BH<sub>3</sub>)<sub>2</sub>; then H<sub>2</sub>O<sub>2</sub>, OH<sup>-</sup>



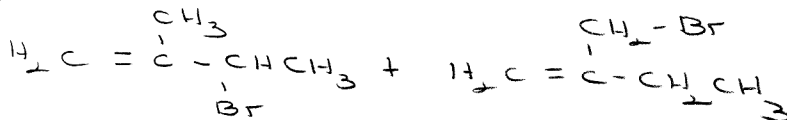
"Anti-Mark"

KMnO<sub>4</sub>



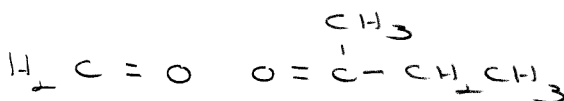
"Syn"

Br<sub>2</sub>, heat



"Allylic"

O<sub>3</sub>; then Zn/H<sub>2</sub>O



KMnO<sub>4</sub>, heat

