

Hint: partial

Type: hydrohalogenation

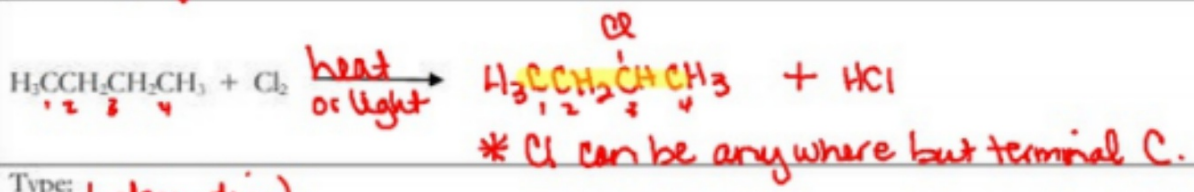


Type: hydration

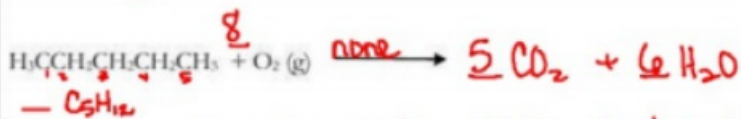


Hint: full

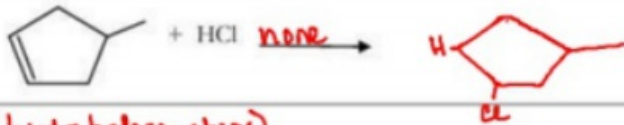
Type: hydrogenation



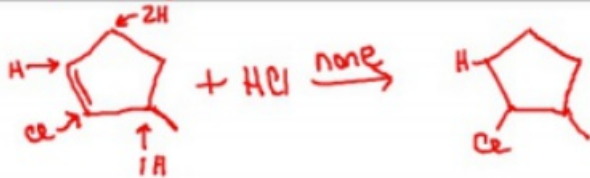
Type: halogenation



Type: **Combustion (oxidation)** * Requires balancing

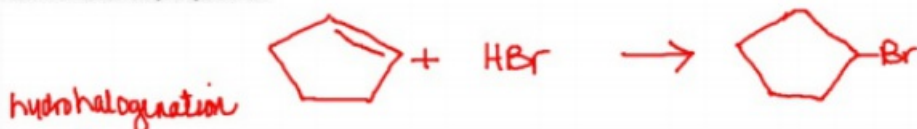


Type: **hydrohalogenation**



Create the reactions necessary to form the following products:

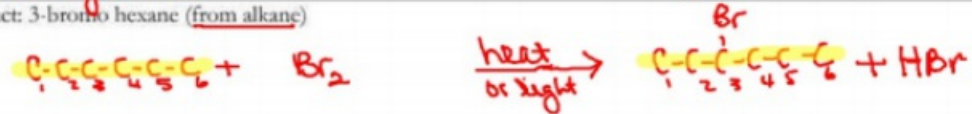
Product: bromocyclopentane



Product: 2-iodo-3-ethyl-heptane



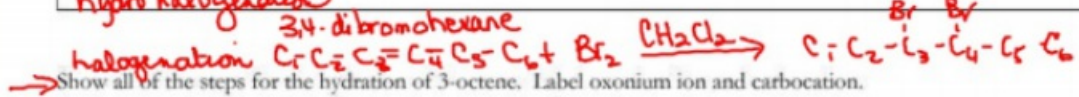
Product: 3-bromo hexane (from alkane)



Product: 3-bromo hexane (from alkene)

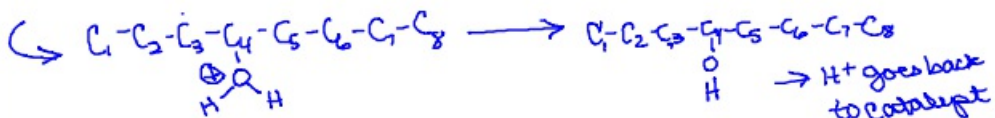
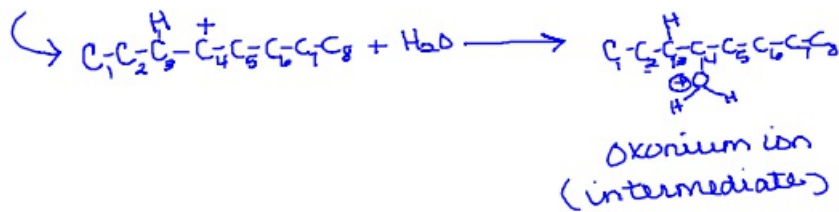


hydrohalogenation



→ Show all of the steps for the hydration of 3-octene. Label oxonium ion and carbocation.

acid catalyzed rxn



3.33 a) hydrohalogenation
none HBr

b) hydration
H₂SO₄ H₂O

c) hydrohalogenation
none HI

d) halogenation (alkene) CCl₄ Br₂
also know → halogenation (alkane) heat or light

