

Hydrocarbon Review

↓
made up of hydrogen and carbon

simplest hydrocarbon:

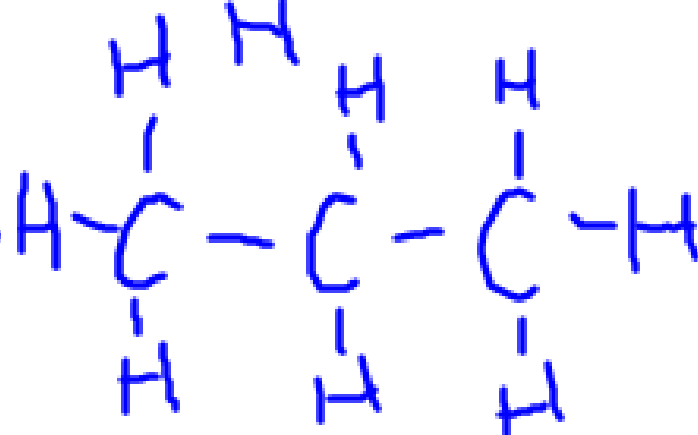
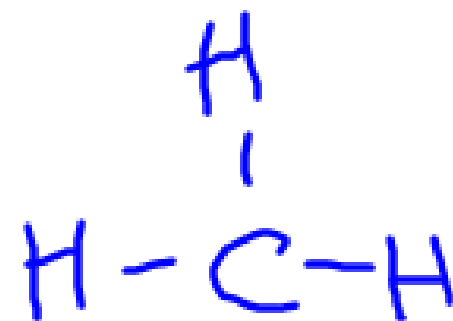
Alkane $C_n H_{2n+2}$

methane: $C_1 H_4$

ethane: $C_2 H_6$

propane: $C_3 H_8$

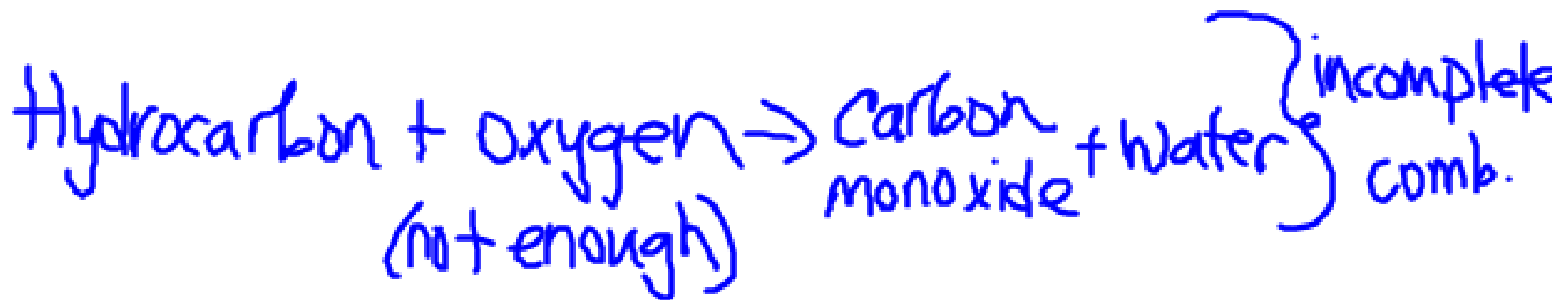
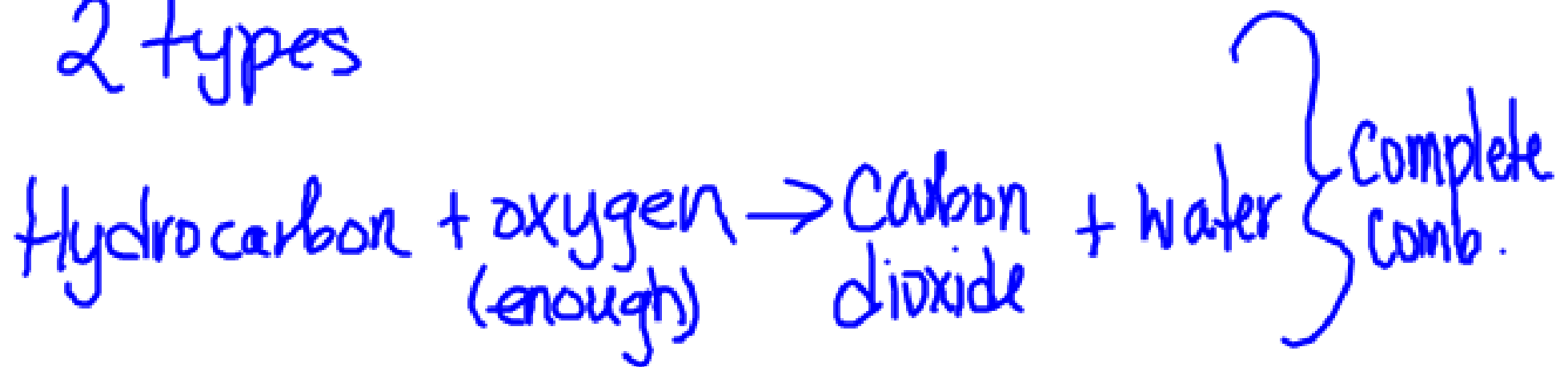
butane: $C_4 H_{10}$



Reaction Prediction - Types of Chemical Rxn

① Combustion

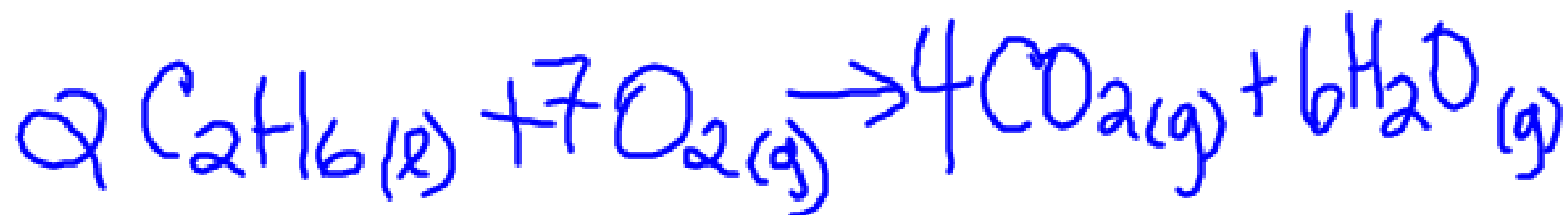
2 types



When a compound "burns in air" it means it is reacting with O_2 in the air.

Example: Predict the products + write the balanced chemical equation

① Ethane is burned in air



Type: complete combustion

② Propane is burned in the presence of not enough oxygen.



Type : incomplete combustion.

② Synthesis Reaction (addition rxn)

General Formula : $A + B \rightarrow AB$

• Element + Element \rightarrow Compound



zinc + oxygen \rightarrow zinc oxide



• Compound + compound \rightarrow compound

