

Organic Chemistry Revision

☐ Alkenes

☐ Hydrocarbons: organic compounds containing carbon and hydrogen

☐ Unsaturated

☐ Naming: end with -ene

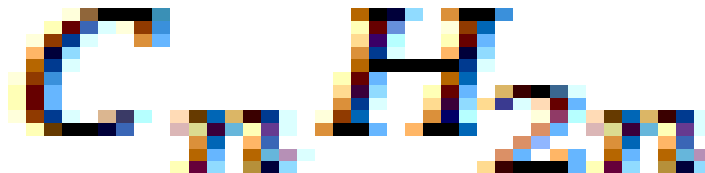
☐ Molecular formula

☐ Structural formula

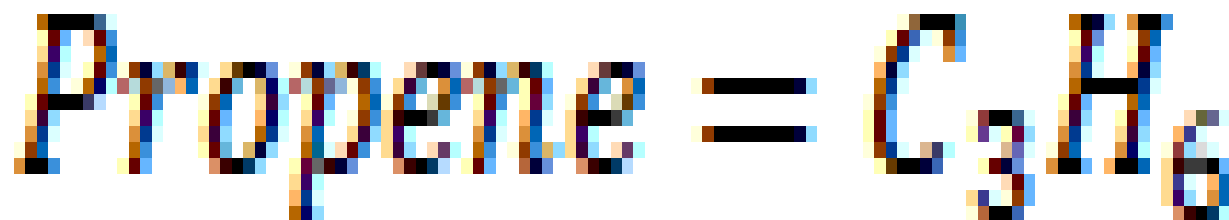
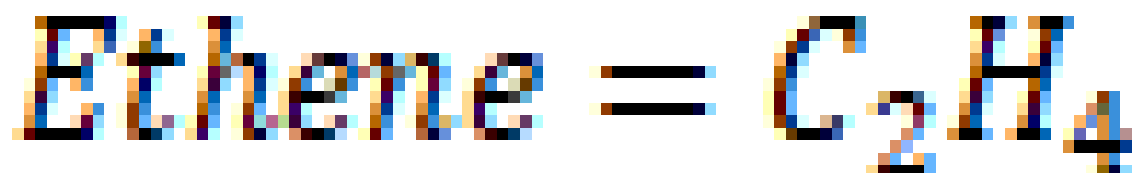
Alkenes

- Hydrocarbons that contain a carbon-carbon double bond
- Are unsaturated: capable of combining with more hydrogen atoms

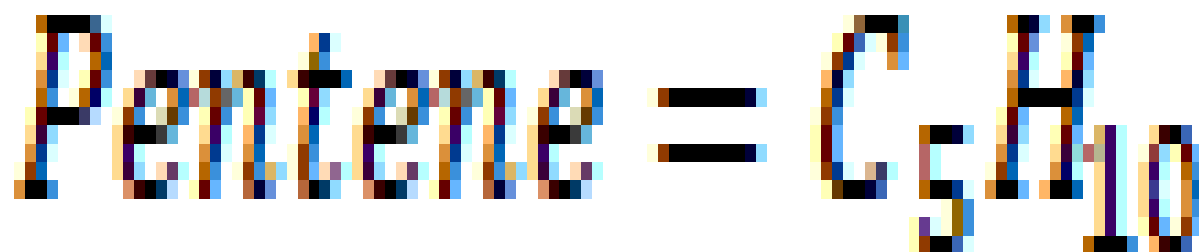
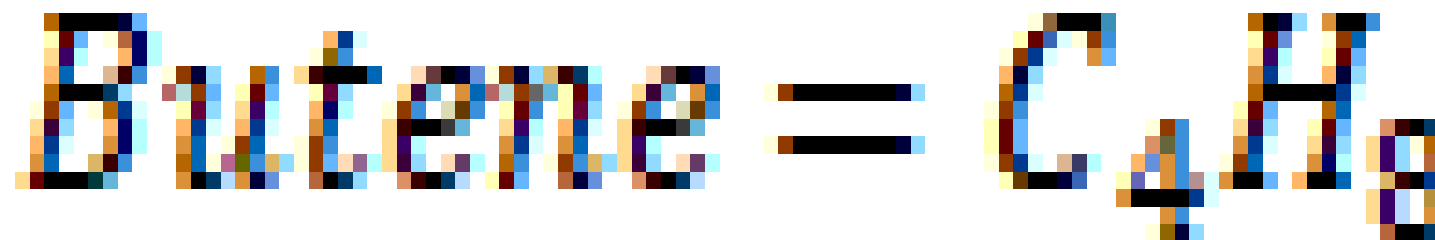
GENERAL FORMULA



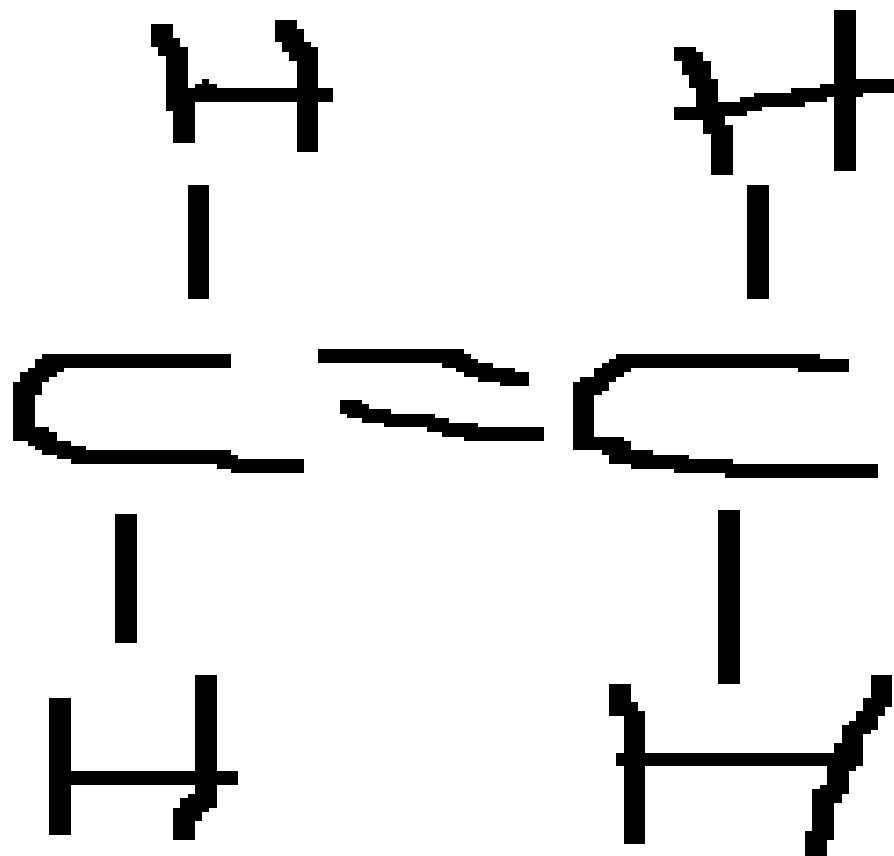
Naming and molecular formula



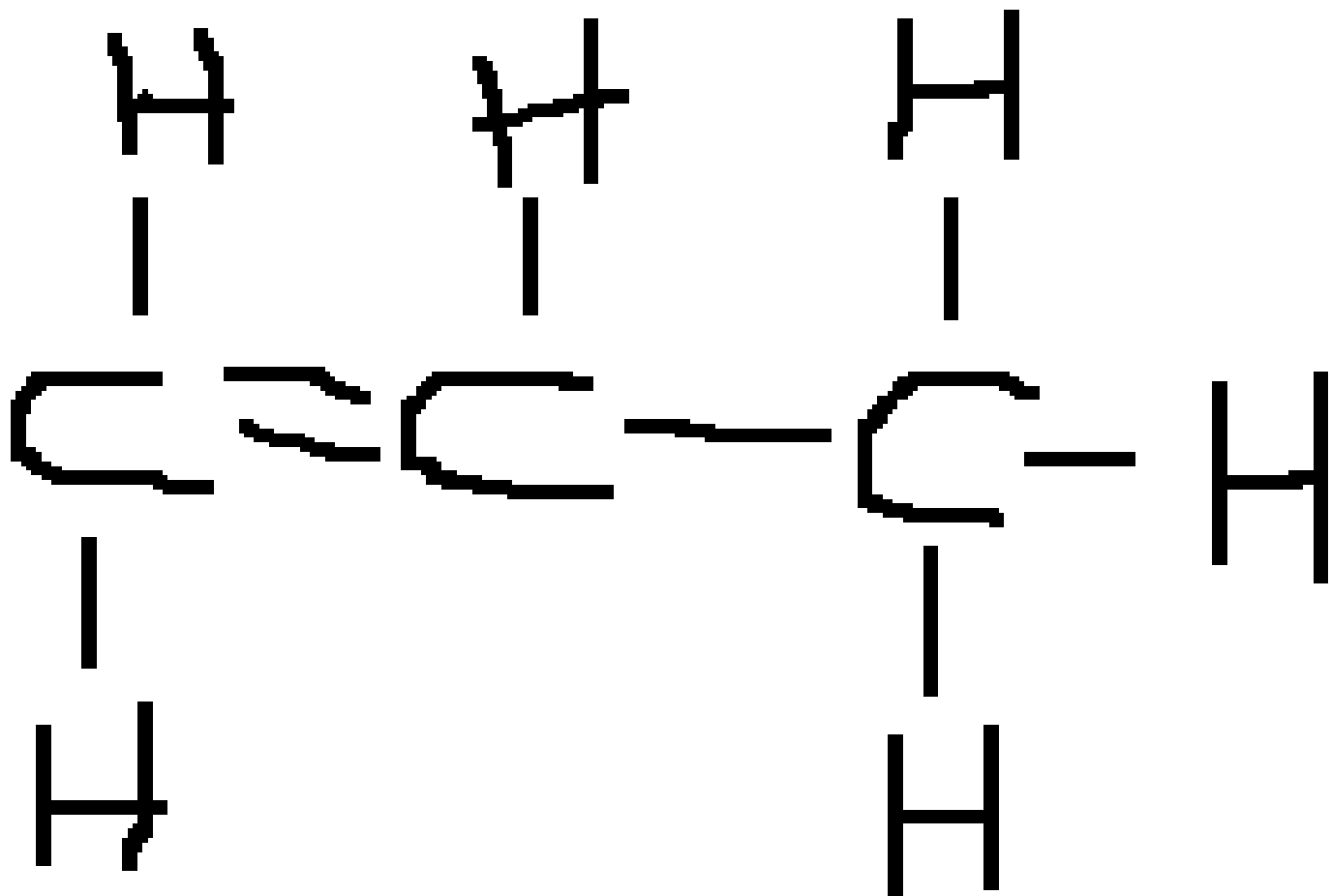
Naming and molecular formula



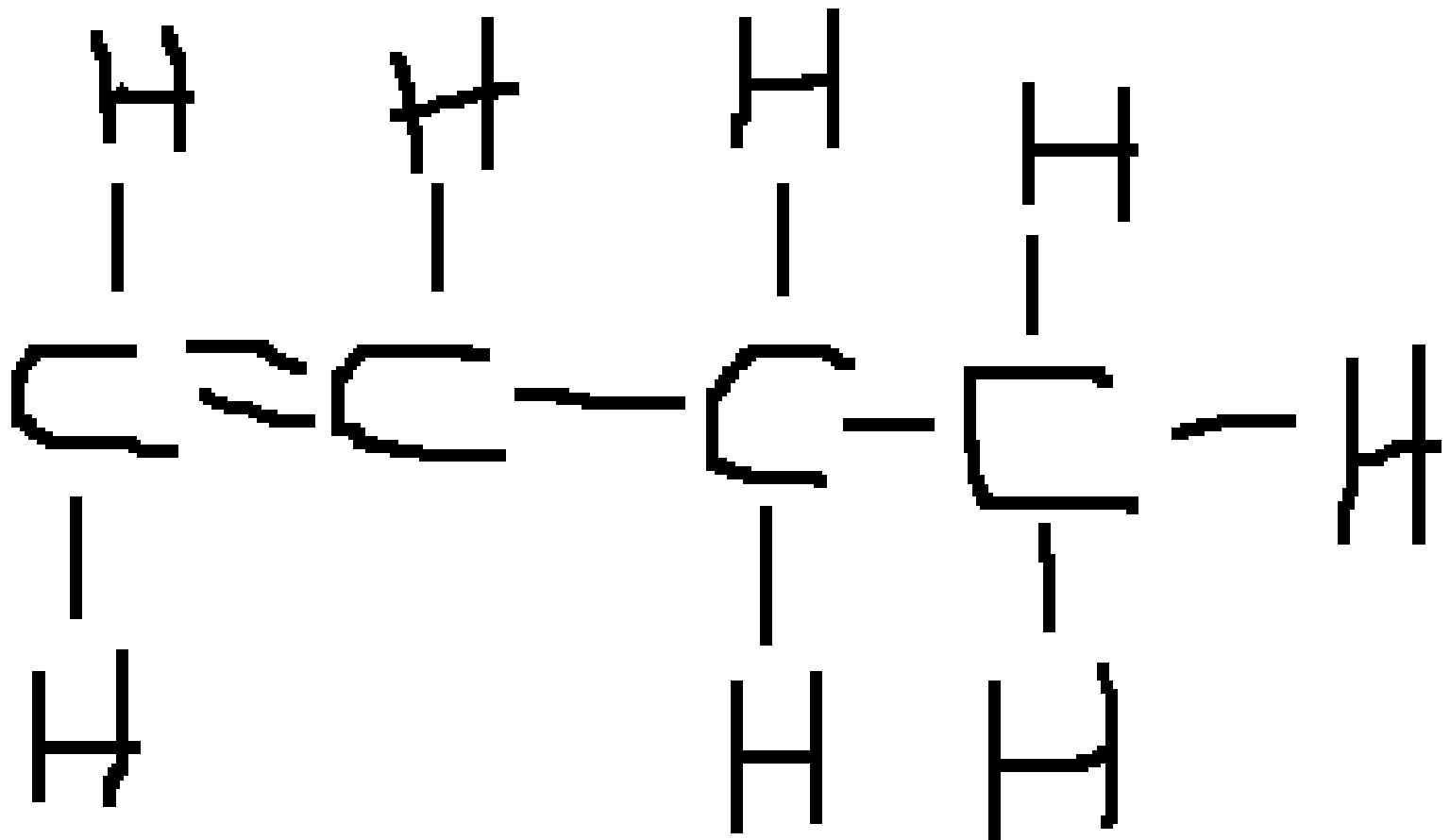
Ethene = C_2H_4



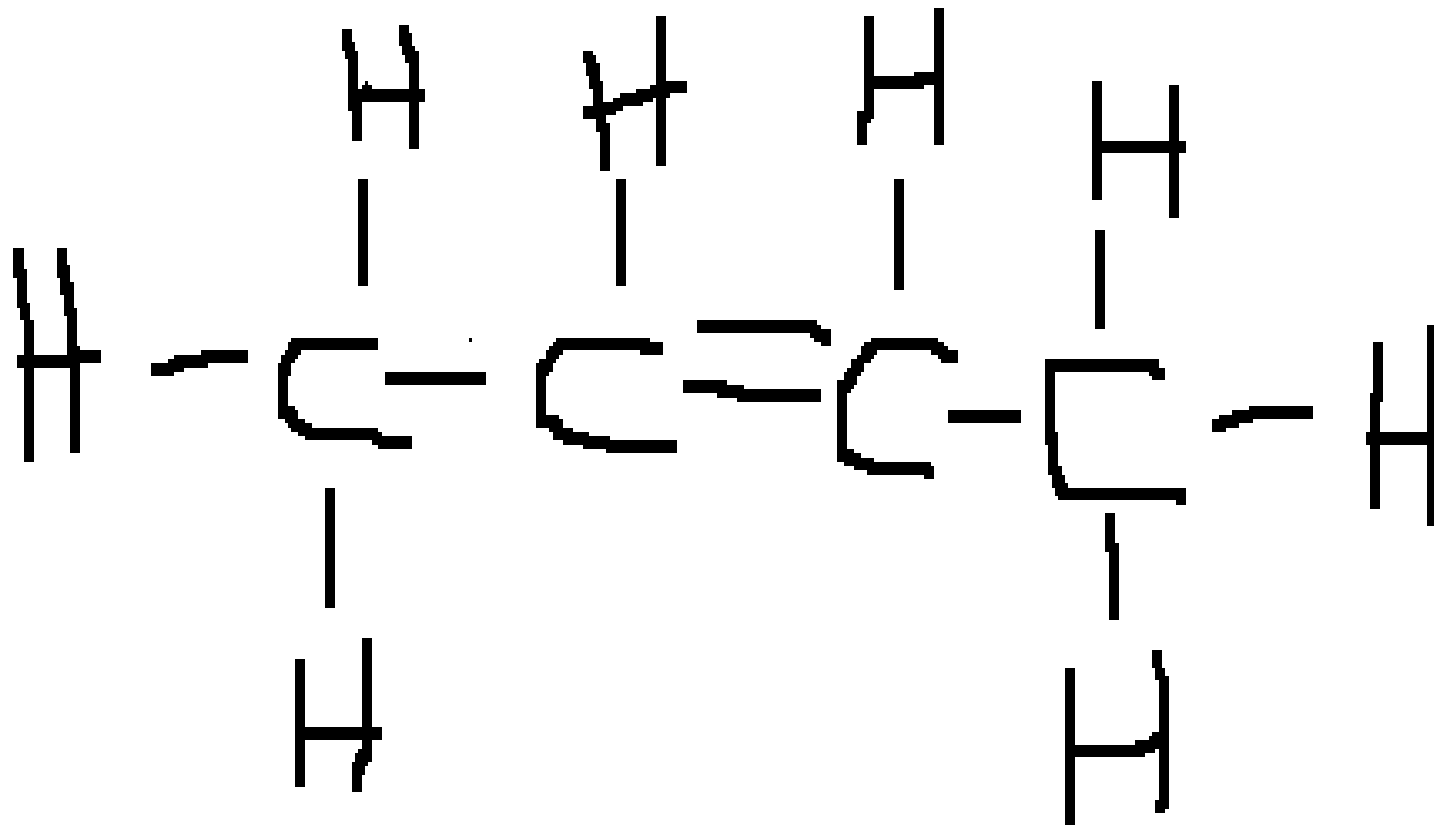
Propene = C_3H_6



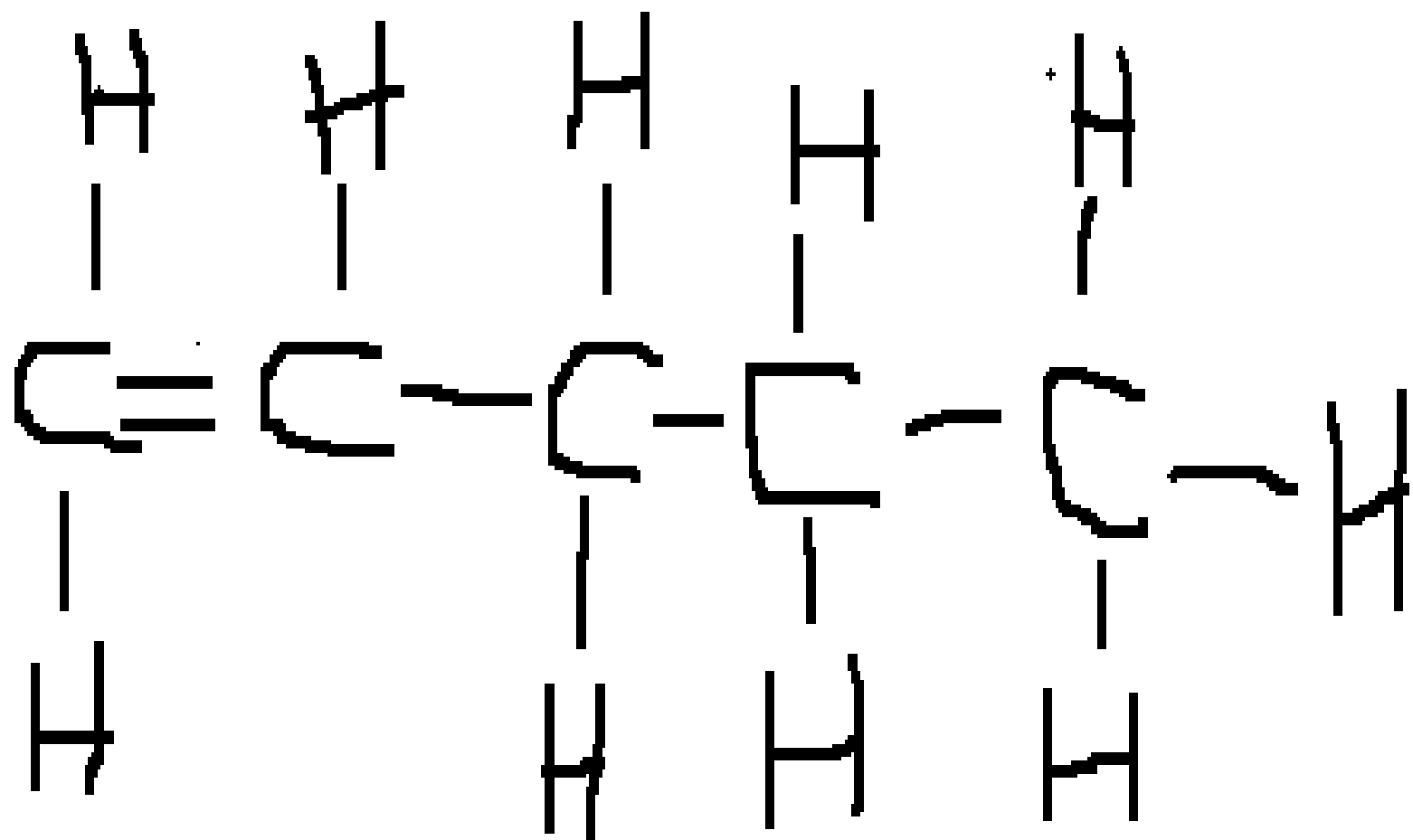
But-1-ene = C_4H_8



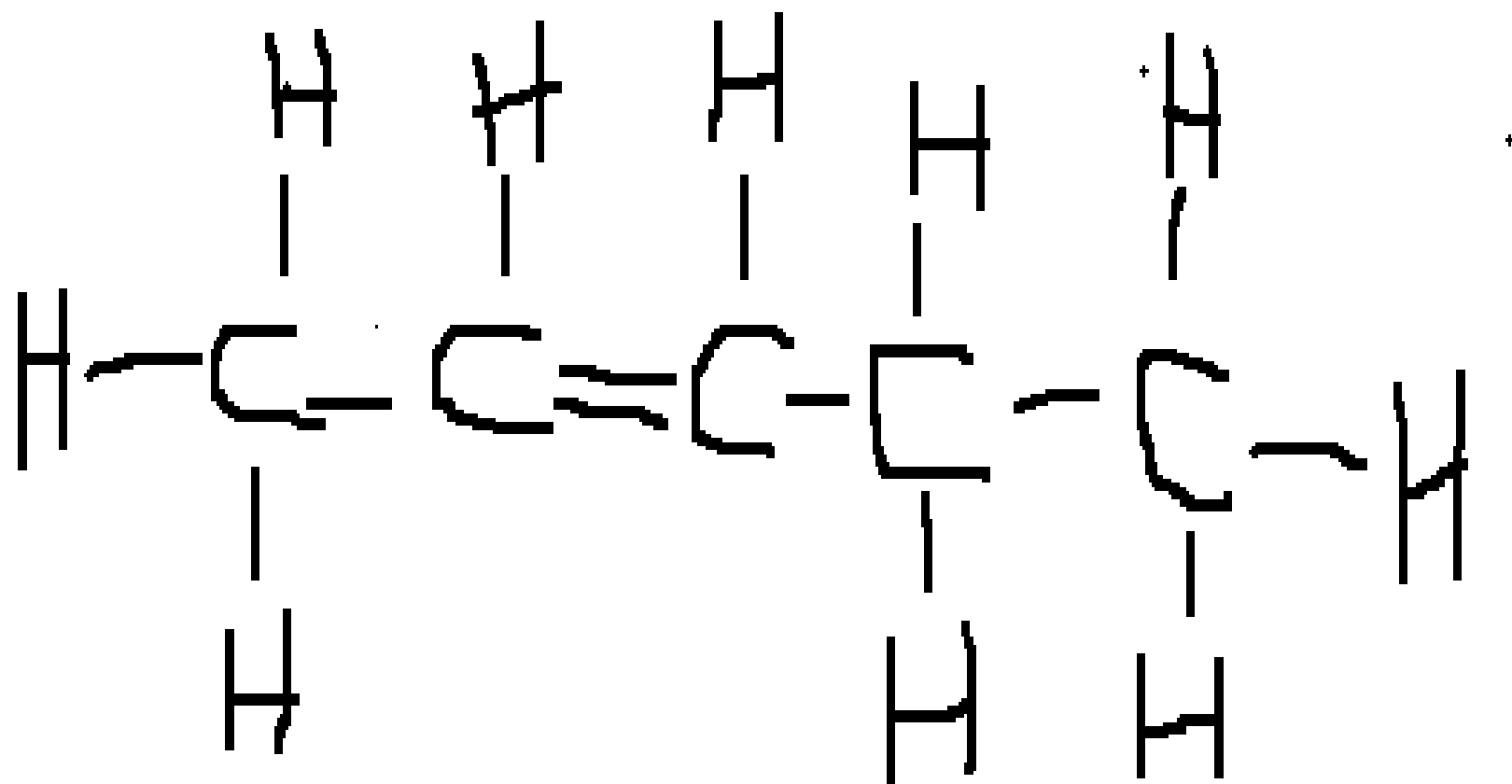
But - 2 - ene = C_4H_8



Pent - 1 - *ene* = C_5H_{10}



Pent - 2 - ene = C₅H₁₀



EXERCISE

Q1. Why is it that alkenes are hydrocarbons?

Q2 Write down the general formula of alkenes

Q3. Write the molecular formula

of (i) Ethene (ii) Pent-1-ene

(iii) But-2-ene

Q4 Write the structural formula

of (i) Ethene (ii) Pent-2-ene

(iii) But-1-ene

Q5. What are isomers?