

Name: Ndubuisi Mandellous Chibreeze

Department: Electrical/Electronics Engineering

Matric No: 19/ENG04032

Chemistry 102 Assignment

i) - formyl group (Aldehyde group) (CHO)
- Hydroxyl group (OH)
- Alkene group (Double Bond)

ii) - Keto group (Carboxyl group) (C=O)
- Amino group (NH₂)
- Aromatic group (Phenyl group)

iii) - Aldehyde group
- Hydroxyl group
- Double bond (Alkene group)

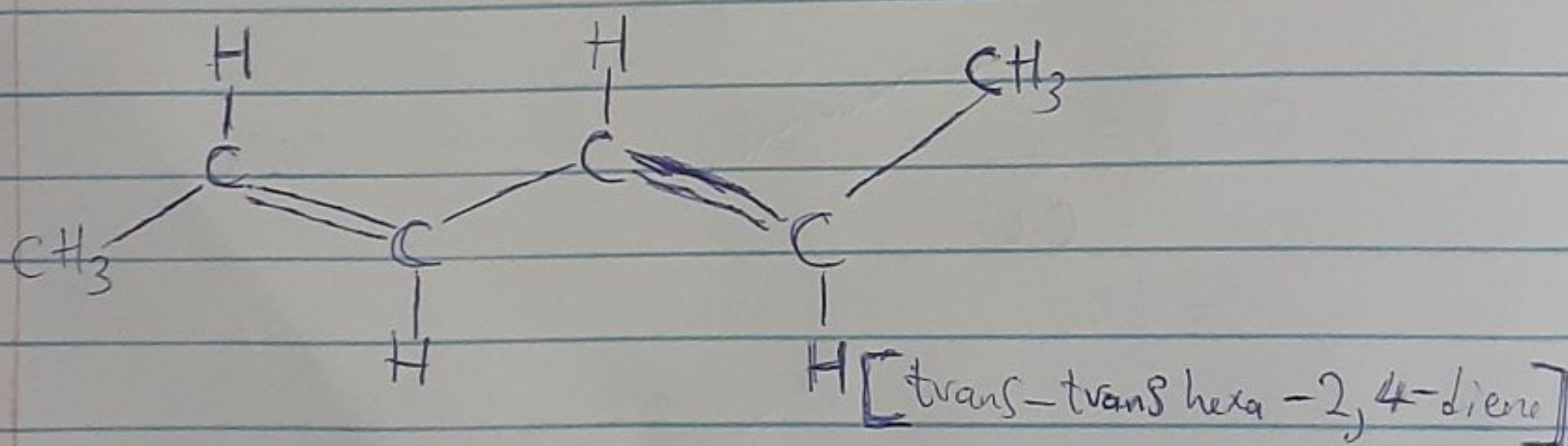
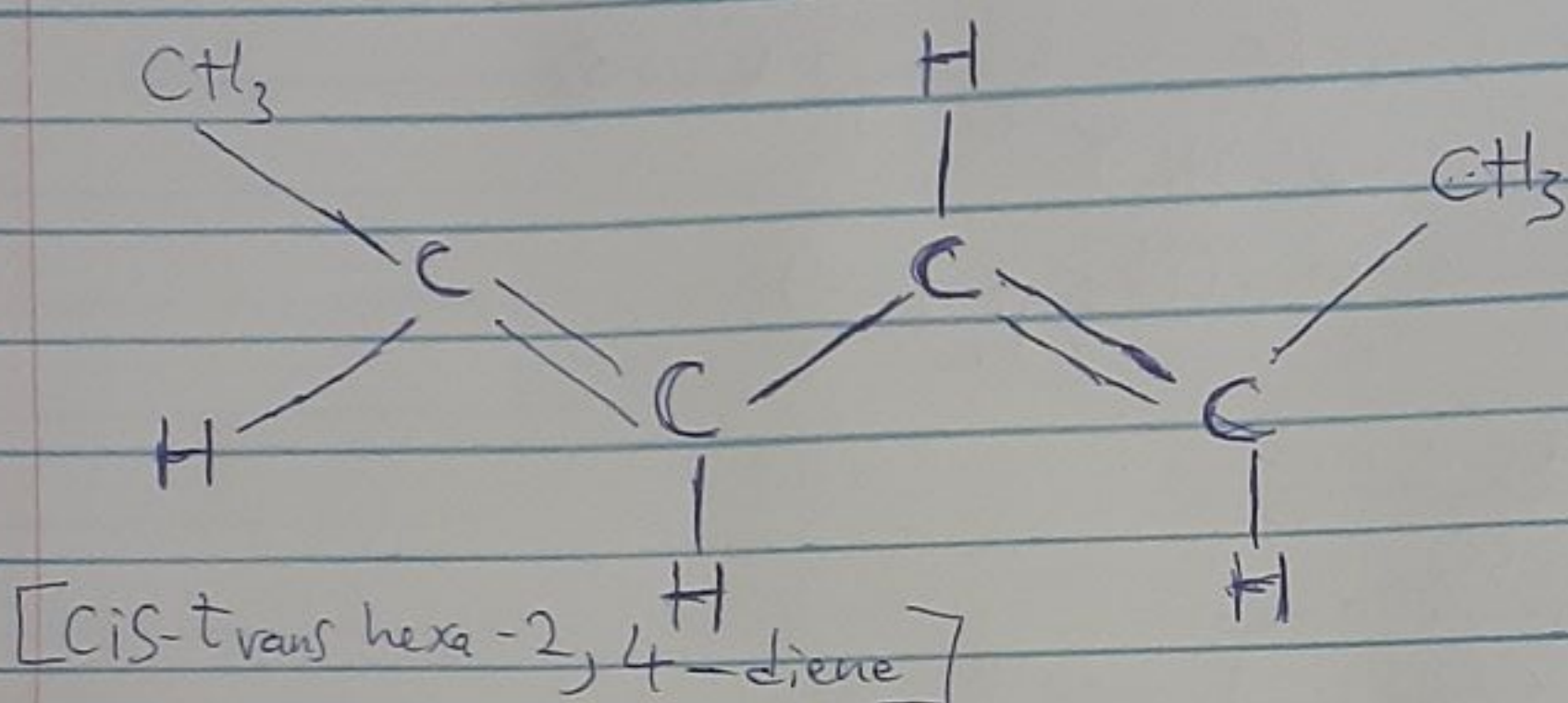
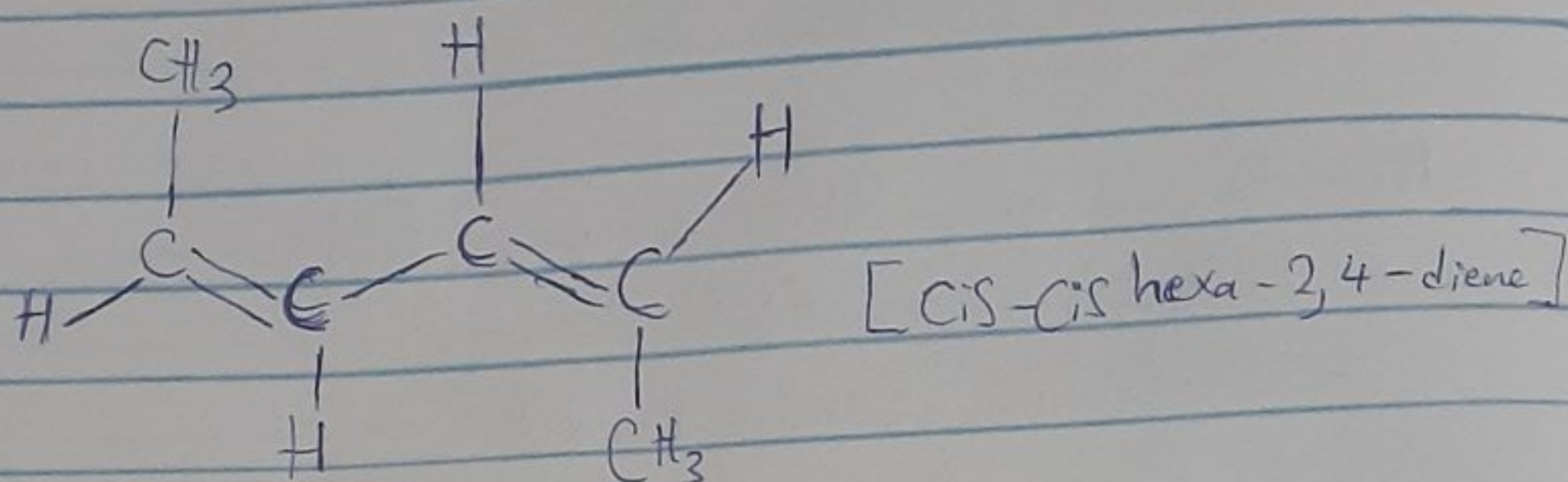
$$2) [\alpha]_D^{25} = \frac{\alpha}{c \cdot l} \quad (\text{Tartaric acid} = \text{C}_4\text{H}_6\text{O}_6)$$

$$\alpha = +1.0$$

$$\text{Conc. Mg/cm}^3 = \frac{0.856}{10} = 0.0856$$

$$\therefore \frac{\alpha}{c \cdot l} = \frac{+1.0}{0.0856} = 11.68^\circ$$

3) Hexa-2,4-diene



ii 2,3-dimethylbut-2-ene

