

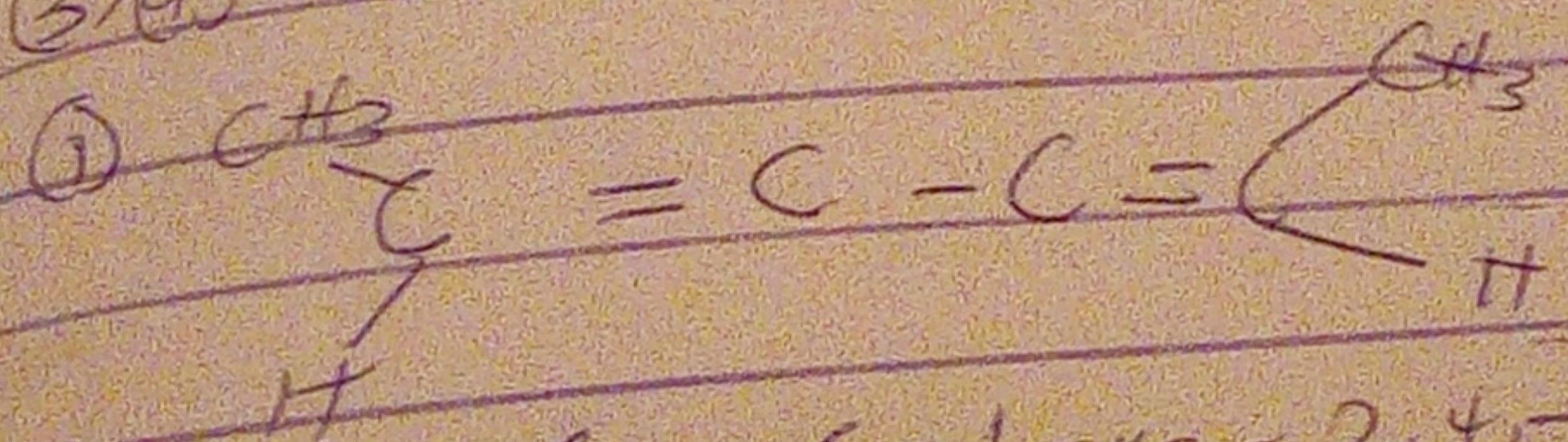
$[L]_D^T = \frac{L}{C \cdot l}$ where;

$L = +1.0$

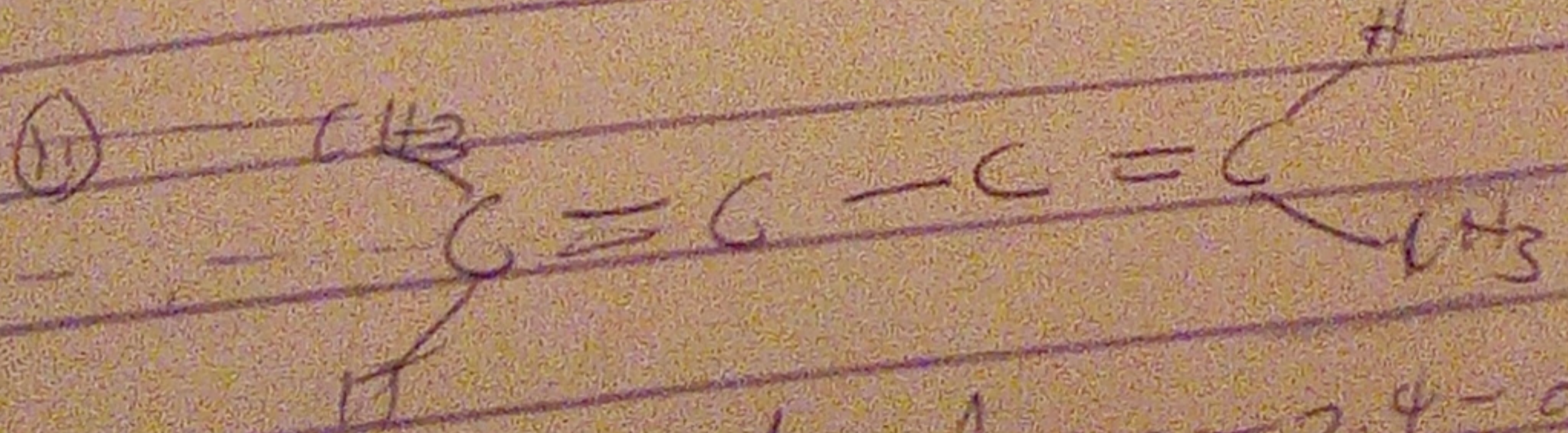
$C = \frac{0.856}{10} = 0.0856 \text{ g/cm}^3$

$\therefore l = \frac{+1.0}{0.0856} = 11.68 \text{ //}$

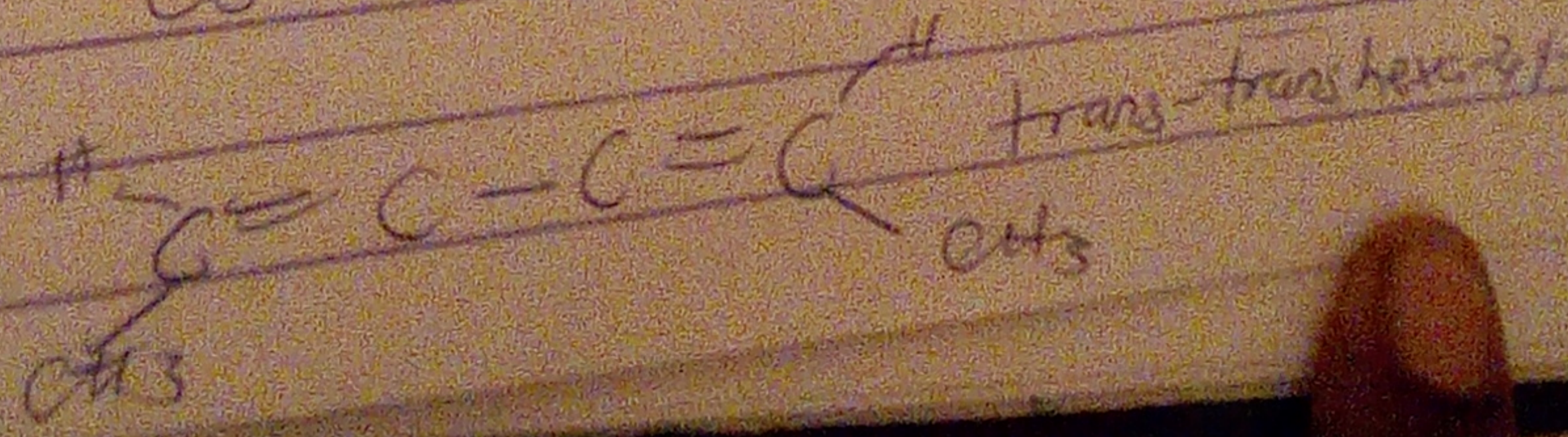
(3) Geometric isomers of hexa-2,4-diene



Cis-Cis hexa-2,4-diene



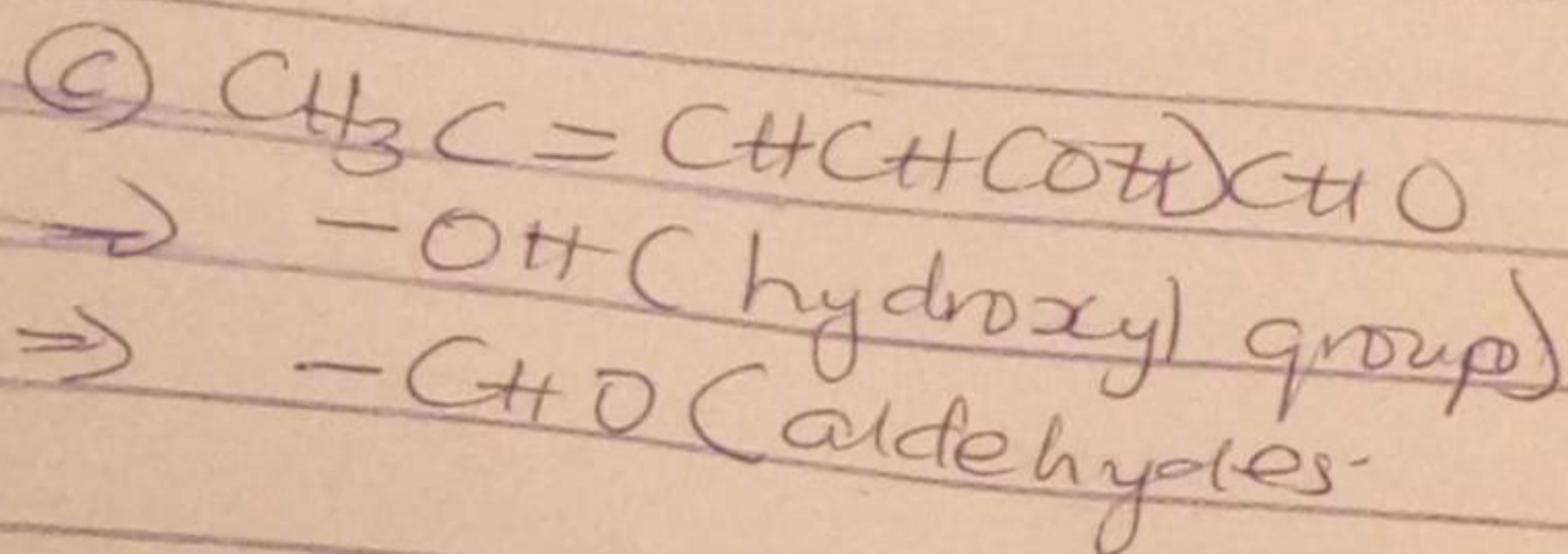
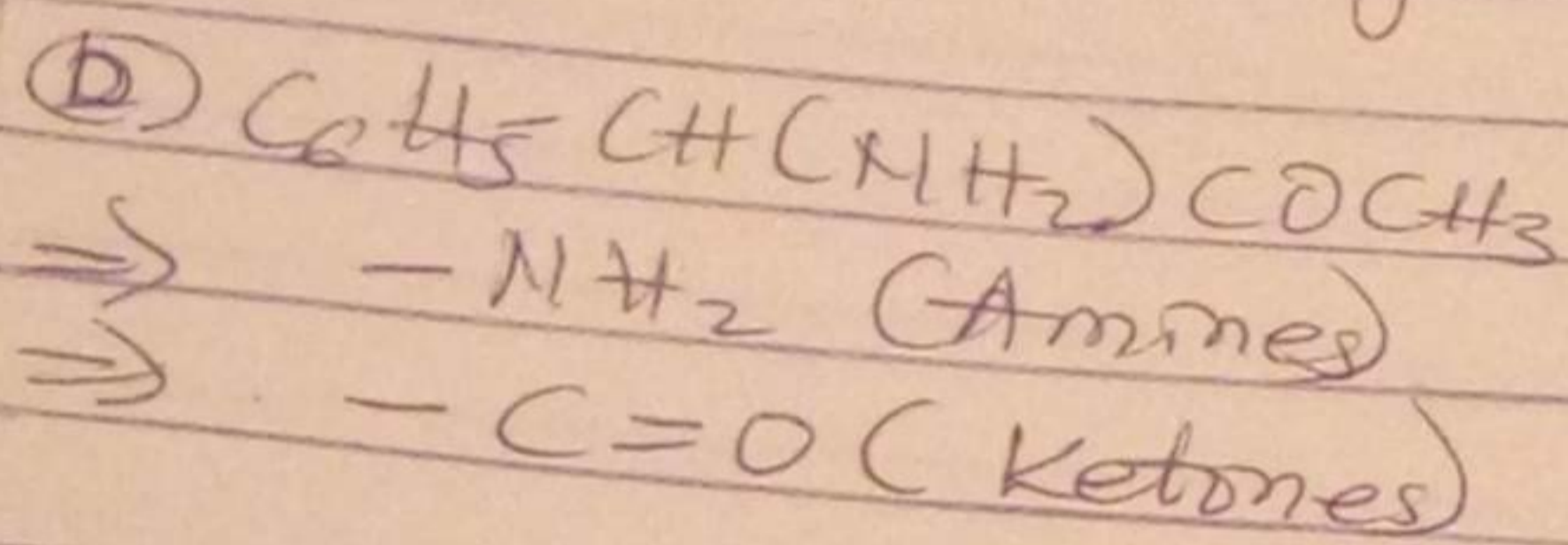
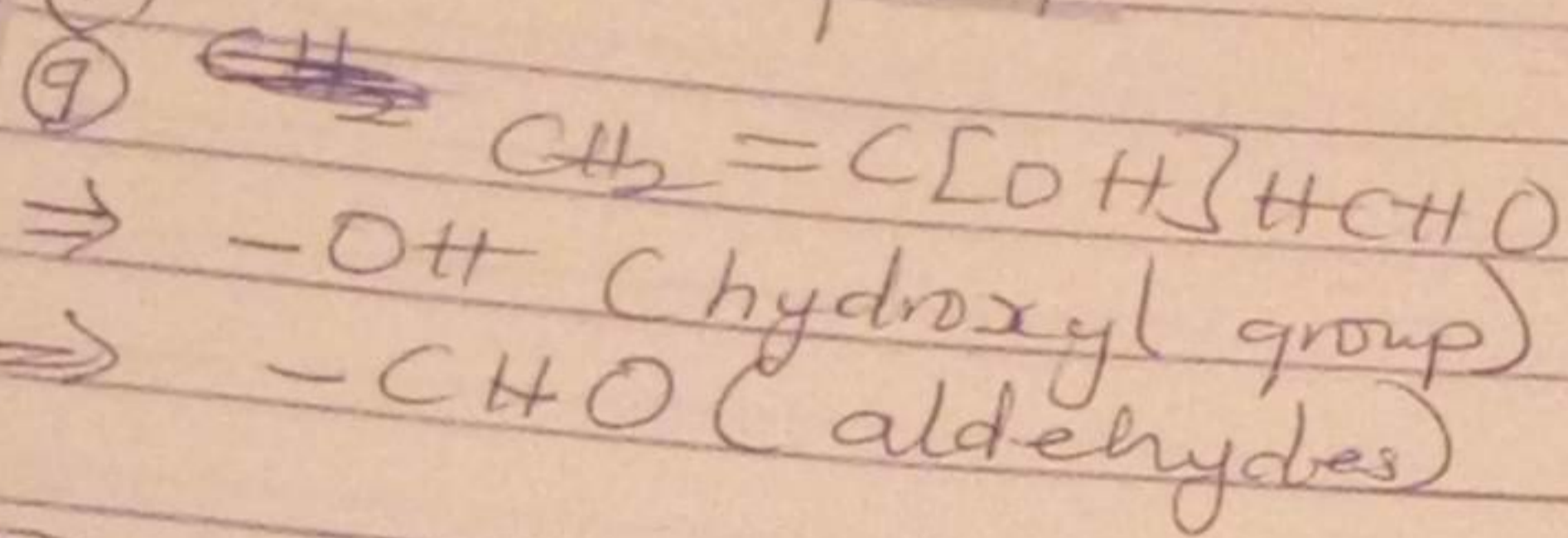
Cis-trans hexa-2,4-diene



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19/MTHS 01/355

CHM 102: Stereochemistry and Functional group

(1)



(2) Recall,
$$[\alpha]_D^T = \frac{\alpha}{l \cdot c}$$

where l = length of sample tube
 α = Observed rotation

Concentration [mol dm^{-3}] =
$$\frac{\text{Conc (g/dm}^{-3}\text{)}}{\text{mol/mass (g/mol)}}$$

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b) ~~2,3-dimethyl~~

2,3-dimethyl but-2-ene has no
~~geometric~~ geometric isomer