

OKERSKE OSINAKATTI MAGATHUNY
 18/ENG02/074
 COMPUTER ENGINEERING

- 1a $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO}$: Alkanes (-OH)
 b $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$: Amines (-NH₂)
 c $\text{CH}_3\text{C} = \text{CHCH}(\text{OH})\text{CHO}$: Alkanes (-OH)

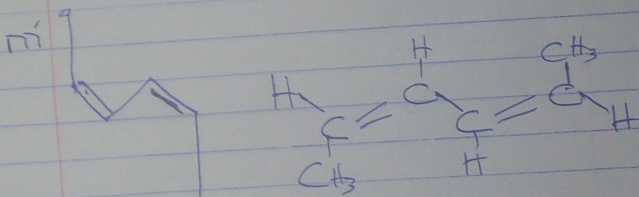
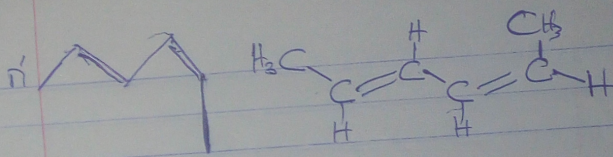
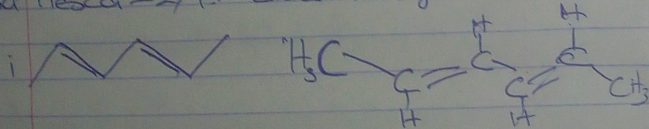
2 mass = 0.86g, observed rotation = +1.0°
 Volume = 10cm³ = 10ml, length = 1.0dm, Temperature = 20°C

$$\bar{c} = \frac{\text{mass}}{\text{Volume}} = \frac{0.86}{10} = 0.086 \text{ gml}^{-1}$$

$$[\alpha]_D^{25} = \frac{\alpha}{l \times c [\text{gml}^{-1}]}$$

$$1.0 = \frac{1.0}{1 \times 0.086} = 11.63^\circ \text{ g}^{-1} \text{ dm}^{-1}$$

3a Hexa-2,4-diene has 3 geometric isomers



b 2,3-dimethylbut-2-ene doesn't undergo geometric isomerism.