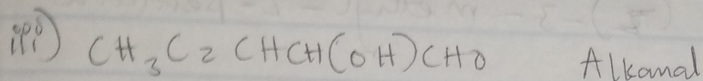
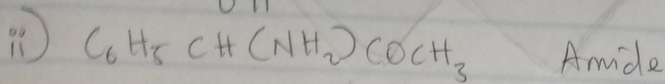
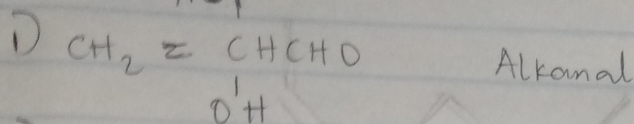


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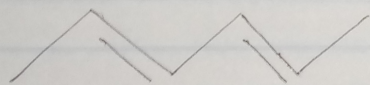
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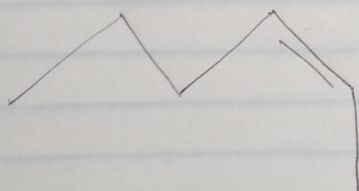
2) Specific rotation = $\frac{\text{Observed rotation (degrees)}}{(\text{concentration g/cm}^3 \times \text{path length of sample cell in dm})}$

$$= +1.0 \\ (0.085 \text{ g/cm}^3)(1 \text{ dm}^3) \\ = 11.8 \text{ g}^{-1} \text{cm}^3 \text{ dm}^{-1}$$

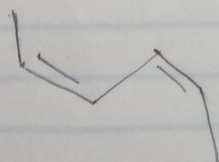
3) i) Hexa-2,4-diene
possible isomers are



(2E, 4E)-hexa-2,4-diene

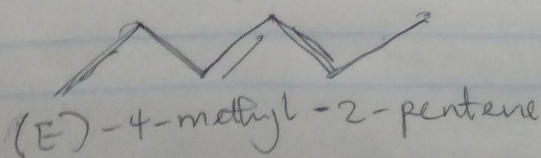


(2E, 4Z)-Hexa-2,4-diene

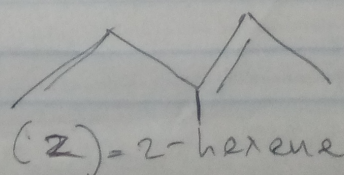


(2Z, 4Z)-hexa-2,4-diene

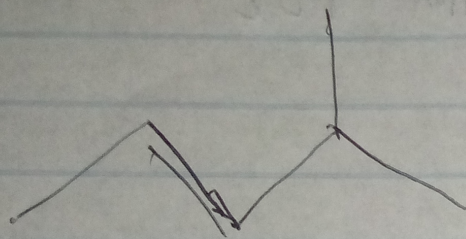
ii) 2,3-dimethylbut-2-ene



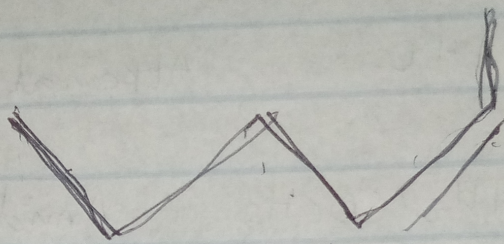
(E)-4-methyl-2-pentene



(Z)-2-hexene



(Z)-3-hexene



(Z)-3-methyl-2-pentene