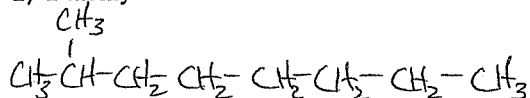
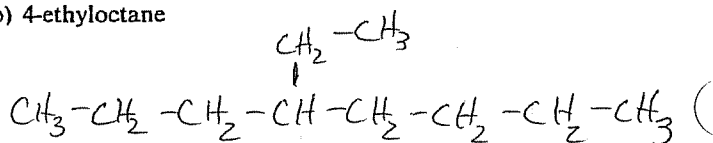


3. Sketch the following:

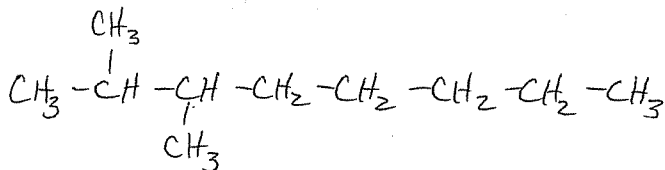
a) 2-methyloctane



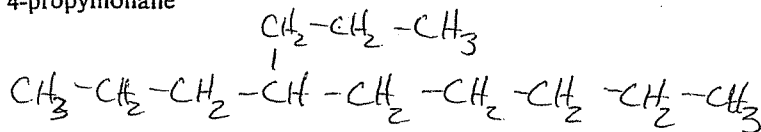
b) 4-ethyloctane



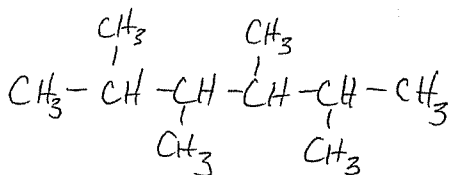
c) 2,3-dimethyloctane



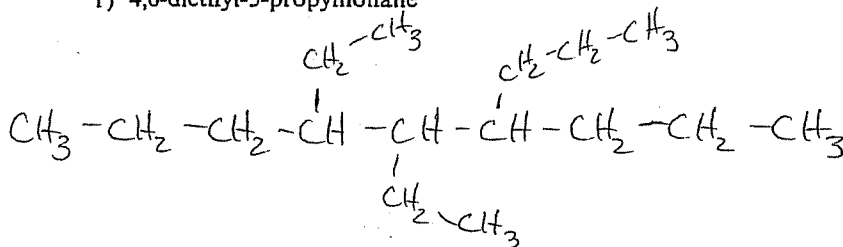
d) 4-propylnonane



e) 2,3,4,5-tetramethylhexane



f) 4,6-diethyl-5-propylnonane



4. Listed below are the condensed structural formulas or names of the nine isomers of heptane, C_7H_{16} . Write either the formula or name for each.

a. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ HEPTANE

b. $\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ | \quad | \\ \text{CH}_3\text{CHCH}_2\text{CHCH}_3 \end{array}$ 2,4-DIMETHYLPENTANE

c. $\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ | \quad | \\ \text{CH}_3\text{C}-\text{CHCH}_3 \\ | \\ \text{CH}_3 \end{array}$ 2,2,3-TRIMETHYLBUTANE

d. 2,3-dimethylpentane

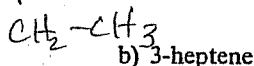
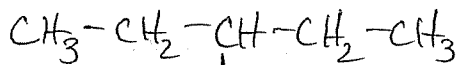
e. 3,3-dimethylpentane

f. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_2\text{CH}_3 \end{array}$ 3-METHYLHEXANE

g. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3\text{CCH}_2\text{CH}_2\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$ 2,2-DIMETHYLPENTANE

h. 2-methylhexane

i. 3-ethylpentane



b) 3-heptene

5. Sketch the following.

a) 1-hexyne

