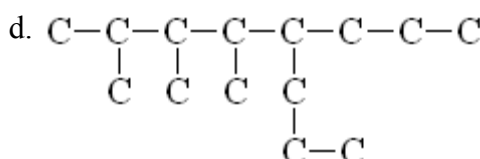
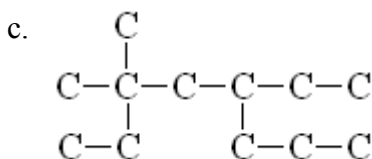
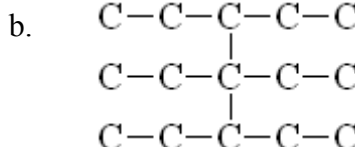


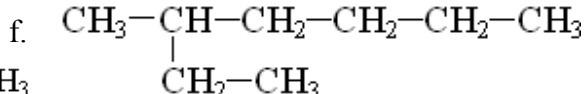
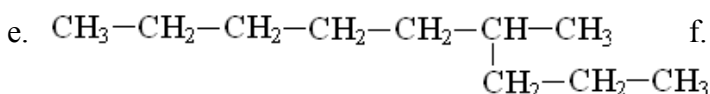
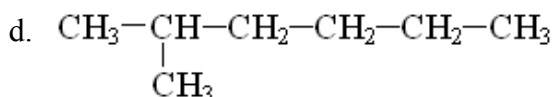
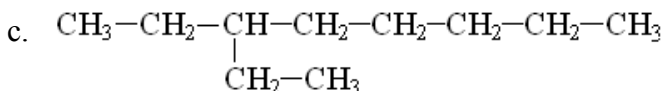
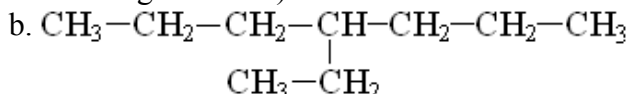
Date: _____

Assignment

1. Determine the number of carbon atoms in the longest chain of each of the following, and name the parent hydrocarbon represented by the longest chain.



a. $\text{CH}_3-\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_2-\text{CH}_2-\text{CH}_3$



a. 3-methylhexane

c. 2-methylpentane

e. 3-ethylheptane

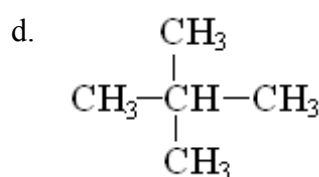
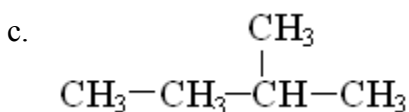
b. 4-ethyloctane

d. 4-propylnonane

f. 5-propyldecane

a. 6-methylhexane

b. 1-ethylbutane



5. Draw the condensed structural formula for each of the following hydrocarbons.
- | | |
|------------------------------------|---|
| a. 3-ethyl-2,3-dimethylhexane | f. 5-butyl-6,6-diethyl-3,3,7-trimethyldecane |
| b. 2,2-dimethyl-5,6-dipropylnonane | g. Dimethylpropane (why are no numbers used?) |
| c. 4-ethyl-3-methyl-5-propyloctane | h. 4-ethyl-2-methyloctane |
| d. 2,2,3,3-tetramethylpentane | i. Hexamethylpentane |
| e. 3,4-diethylhexane | j. 3,6-diethyl-4-methyl-5-propyloctane |

6. Name the following molecules.

