

# Student Worksheet

## Naming Aliphatic Hydrocarbons

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1. For each of the following IUPAC names, draw a structural diagram.

(a) methylpentane

(e) propyne

(b) octane

(f) methylpropene

(c) 2,3,4-trimethylpentane

(g) cyclohexane

(d) ethene

2. For each of the following structural diagrams, write the IUPAC name.

(a)  $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH} = \text{CH}_2$

(c)  $\text{CH}_3 - \text{C} = \text{C} - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CH}_3$

(b) 
$$\begin{array}{ccccccc} & & & \text{CH}_3 & \text{CH}_3 & & \\ & & & | & | & & \\ \text{CH}_3 - & \text{CH} = & \text{C} - & \text{C} - & \text{CH}_3 & & \\ & & & | & & & \\ & & & \text{CH}_3 & & & \end{array}$$

(d) 