



CHEMISTRY

ALKENES AND ALKYNES

Naming Alkenes and Alkynes**ALKENES - (alkENEs)**

→ An alkene contains a *double* bond.

ALKYNES - (alkYNEs)

→ An alkyne contains a *triple* bond.

The general rules for naming alkenes and alkynes are similar to the general rules for naming alkanes. You use the ending *-ene* for an **alkene** (which contains a double bond) or the ending *-yne* for an **alkyne** (which contains a triple bond).

You need to indicate the correct location of the double or triple bond with a number. As before, the number selected should be the smallest possible and takes precedence over all side chains.

**CHEMISTRY****ALKENES AND ALKYNES**Drawing Alkenes and Alkynes

Examples: Draw the following hydrocarbons

2-pentene

3,3-dimethyl-1-butyne

4,5-diethyl-1,6-octadiene

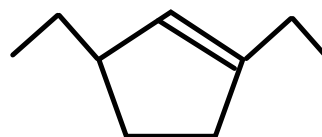


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Naming Alkenes and Alkynes

Examples: Name the following hydrocarbons





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ALKENES AND ALKYNES - Worksheet

The *Complete Organic Chemistry* Worksheet

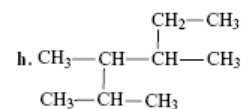
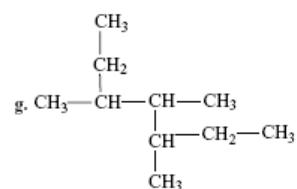
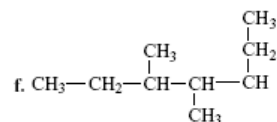
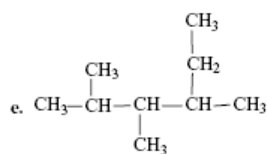
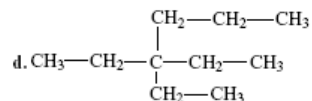
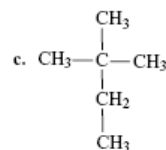
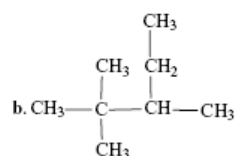
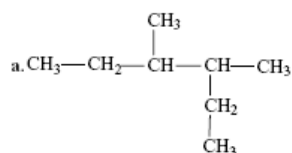
The Complete Organic Chemistry Worksheet.doc

Name _____

Date _____

Period _____

1. Name the following hydrocarbons.

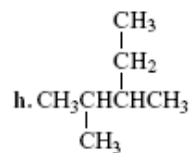
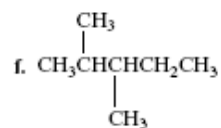
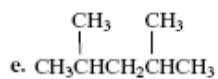
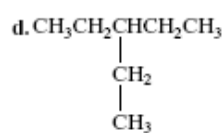
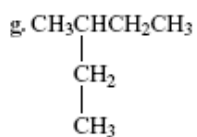
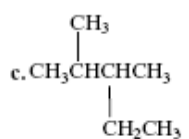
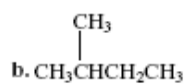
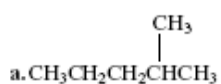




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ALKENES AND ALKYNES - Worksheet

2. Name the following hydrocarbons.



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5. Draw the structural formulas for the following:
- 3-heptyne
 - cyclopentene
 - 3-phenyl-2,2-dimethylhexane
 - 1,3-butadiene
 - 1-ethyl-2-methylbenzene
 - 2,4-dimethyl-2-pentene



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ALKENES AND ALKYNES - Worksheet

7. Name the following compounds.

