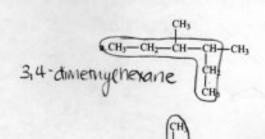
## The Complete Organic Chemistry Worksheet

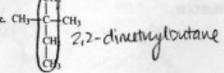
The Complete Organic Chemistry Worksheet.doc

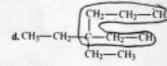
Name		
	Date	
		Period

1. Name the following hydrocarbons.



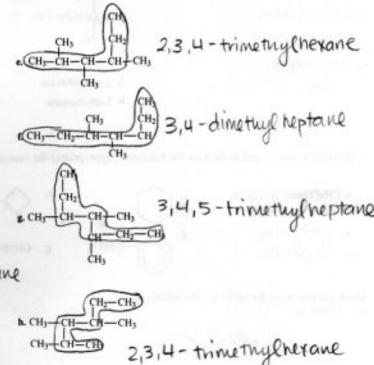
2,2,3-trimetry/pentane





3,3-dietnylnexane

2. Name the following hydrocarbons.

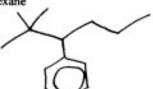


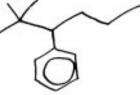
- 4.CH3CH2CHCH2CH3
- CH<sub>3</sub> CH<sub>3</sub> e. CH,CHCH,CHCH,
- f. CH3CHCHCH2CH3
  - h. CH<sub>3</sub>CHCHCH<sub>3</sub>

- a) 2-methylpentane
- b) 2-metryl butane
- c) 2,3-dimetry/pentane
- d) 3-ethylpertane e) 2,4-directryl pentane
- f) 2,3-dimetryl peutane
- 9)2-etnylbutane
- n) 2,3-dimenyl pentane

Listed below are the condensed structural formulas or names of the nine isomers of heptane, C7H16. Write the formulaname for each.



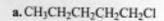








 Listed below are the condensed structural formulas or the names for the eight isomers of C<sub>5</sub>H<sub>11</sub>Cl.Write condensed name for each.

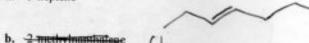


- b. CH3CHCH2CH2CI
- c. 2-chloropentane
- d. 2-chloro-2-methylbutane
- 7. Name the following compounds.



- d. Carrie
- e. CH3CH=CHCH2CH3
  - CH<sub>3</sub>
- f. CH3C=CHCH3
- g. CH3CH2CH=CH2
- Draw structural formulas for the following.

a. 3-heptene

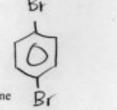


- - trichloromethane
- 2-chloro-3-phenylhexane

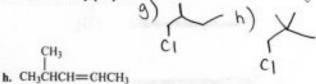


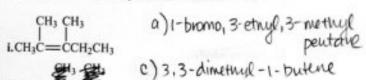
1,4-dibromobenzene

h. 2-bromo-3-methyl-2-butene

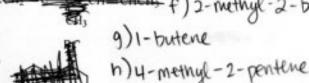


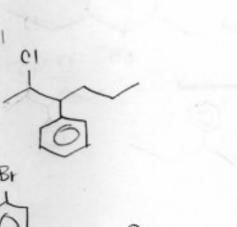
- a)1-chloropeutaue b) 1-chloro,3-metryl butour e. CH3CH2CHCH2CH3 ÇH<sub>3</sub> ÇI
- f. CH3CH-CHCH3
  - e) 3-chlorohexave
- f) 3-chloro, 2-methyl butane g. 1-chloro-2-methylbutane h. 1-chloro-2, 2-dimethylpropane

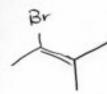




e) 2- pentene f) 2-methyl-2-butene







- Write structural formulas for the following compounds.

  a. 2-chlorobutane C1
  - a. 2-chlorobutane



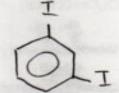
b. 2-butene



c. 2-ethyl-3-methyl-1-butanol



- OH

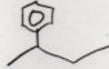


- 1,3-diiodobenzene
- othoxybenzene
- 1-butanol

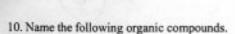
3-methyl-2-pentene

I. 3-ethyl-2,4-dimethyl-3-hexanol

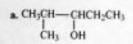
- n. 2-phenylbutane



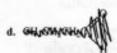
- 4-bromobenzoic acid-







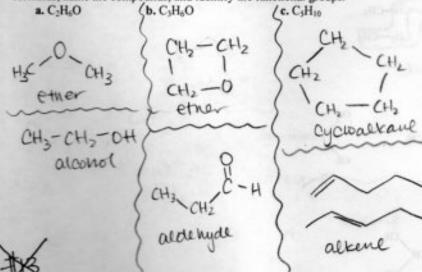






## 11. Name the following organic compounds.

12. Each of the following formulas can be written as two compounds with different functional groups. Write the structural formulas, name the compounds, and identify the functional groups.





14. Draw and name the five structural isomers of hexane (C6H14)

-methylpentane (4)

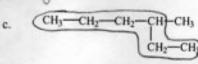
15. Draw the structural formula for each of the following.

a. 2-Methylpentane

b. 2,2,4-Trimethylpentane, also called isooctane. This compound is the reference for octane ratings for gasoline.

16. Name each of the following:

2, 3, 3-trimetry luxane



3-netwy enexane

17. Name each of the following alkenes.

