Name:		Date:		
Organic Chemistry - HYDROCARBONS WORKSHEET				
Draw the complete structural formula and condensed molecular formula for each compound.				
IUPAC Name	Complete Structural Formula	Condensed Formula		
butane				
2-methylhexane				
3-ethyl-2-methylnonane				
propene				
4-methyl-2-heptene				

ethyne

5,6-dimethyl-2-octyne

cyclopropane	
1,3-diethylcyclohexane	
5-ethyl-4-propyl-2- heptyne	
2,2-dimethly-3- phenylhexane	
1-methyl-3- propylbenzene	

Draw structural formulae and give the names for the five possible (noncyclic) isomers of C_6H_{14} .

NAMING HYDROCARBONS

Name the compounds below according to the IUPAC naming system

name the compounds below according to the	ne for AC flatfilling system
1. H H H I I I H - C - C - C - H I I I H H H	5. H H H
2. $ H $	6. H CH ₃ H
3. $H - C \equiv C - C - H$ H	7. H H H H H H - C - C = C - C - H H H H H H H H H H
H H H CH ₃ H	8. H

Use IUPAC naming rules to name the following hydrocarbon compounds:

$$\begin{array}{c} CH_2-CH_3\\ |\\ a) \quad CH_3-CH-CH_2-CH-CH-CH_3\\ |\\ |\\ CH_2 \quad CH_3\\ |\\ CH_3 \end{array}$$

- c) 🔲
- d) $CH \equiv C CH_3$
- e) CH₃-CH₂-CH₂-CH=CH-CH₃
- f) CH₂=CH-CH₂-CH=CH-CH₃
- g) $CH_3 CH_2 C \equiv C CH_2 CH_3$
- h)