

Organic Chemistry Review

Chemistry

Name Key

Determine if the following molecules are Organic or Inorganic:

1. H_2S I 2. CH_3COOH O 3. CO_2 I 4. $NaCl$ I
 5. C_2H_4 O 6. CH_3NH_2 O 7. NH_3 I 8. $C_6H_{12}O_6$ O

9. What is the difference between the molecular and structural formula of a compound?

molecular - has only the number of ~~atoms~~ ^{atoms in a} compound
 structural - shows how the atoms are bonded to gether

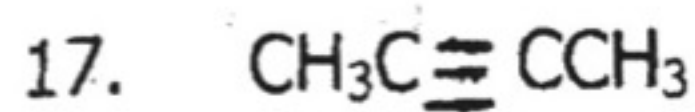
10-15 Complete the following chart.

Name	Structural Formula	Molecular Formula
pentene	$CH_2=CHCH_2CH_2CH_3$	C_5H_{10}
ethane	CH_3CH_3	C_2H_6
butyne	$CH\equiv CCH_2CH_3$	C_4H_6
3-hexene	$CH_3CH_2CH=CHCH_2CH_3$	C_6H_{12}
propane	$CH_3CH_2CH_3$	C_3H_8

Name the following compounds using the correct naming rules.

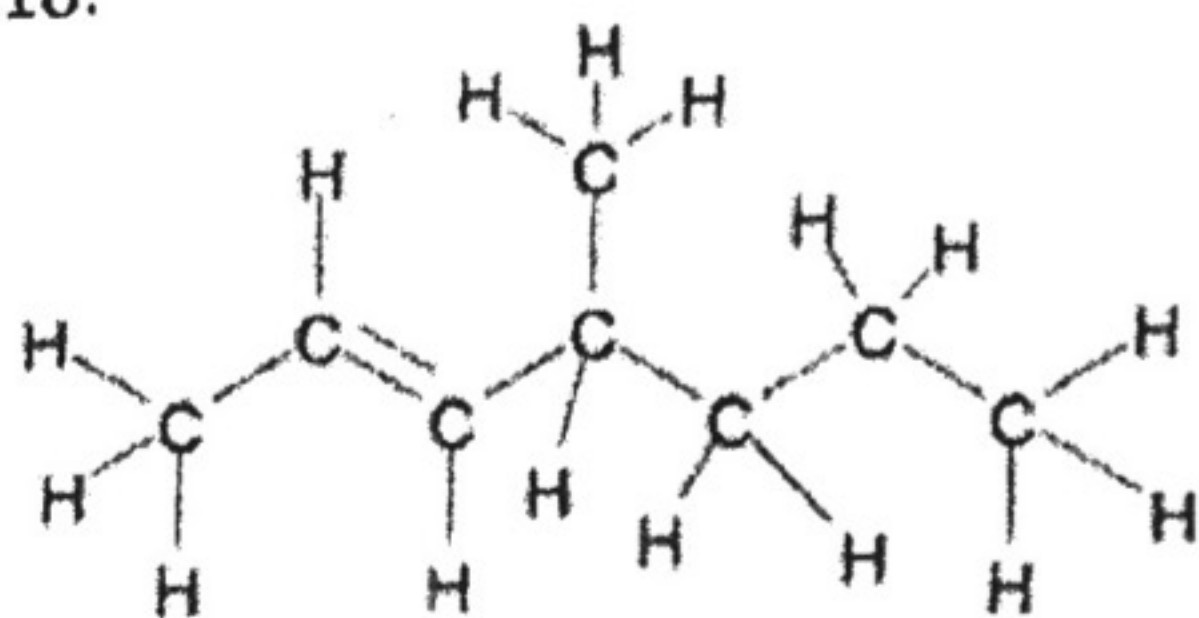


1-hexene



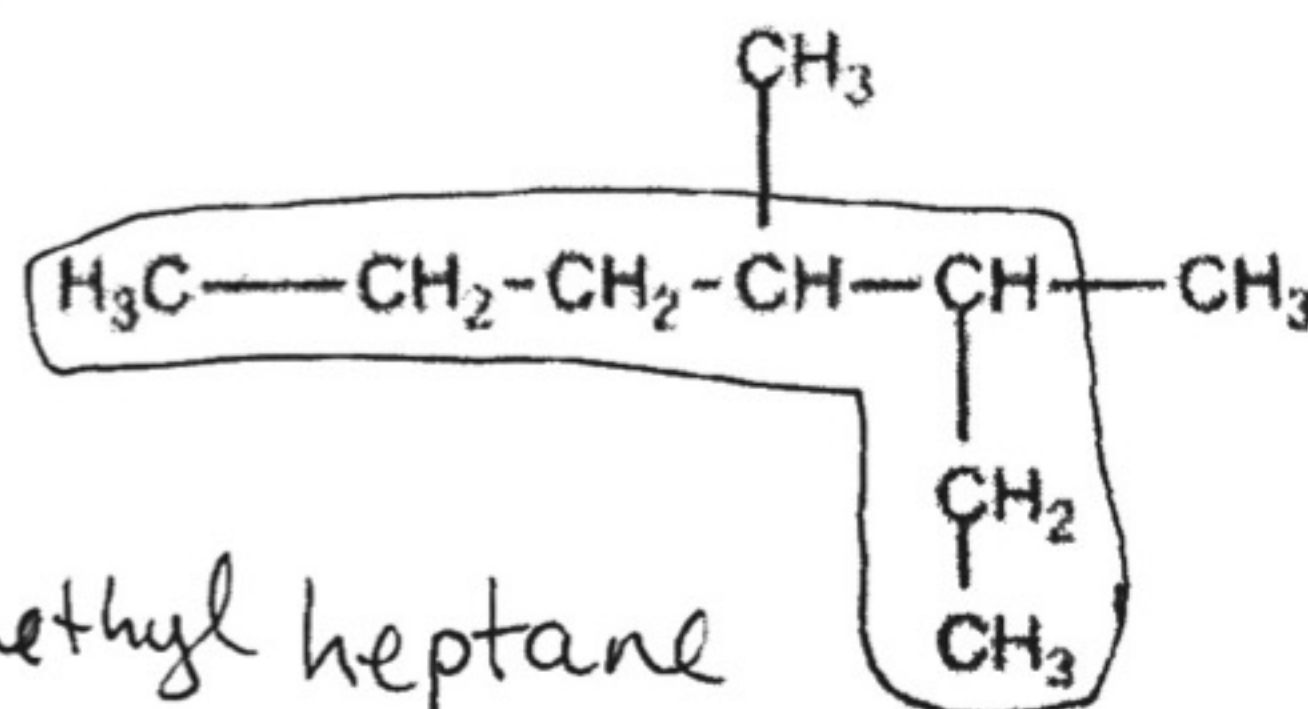
2-butyne

18.



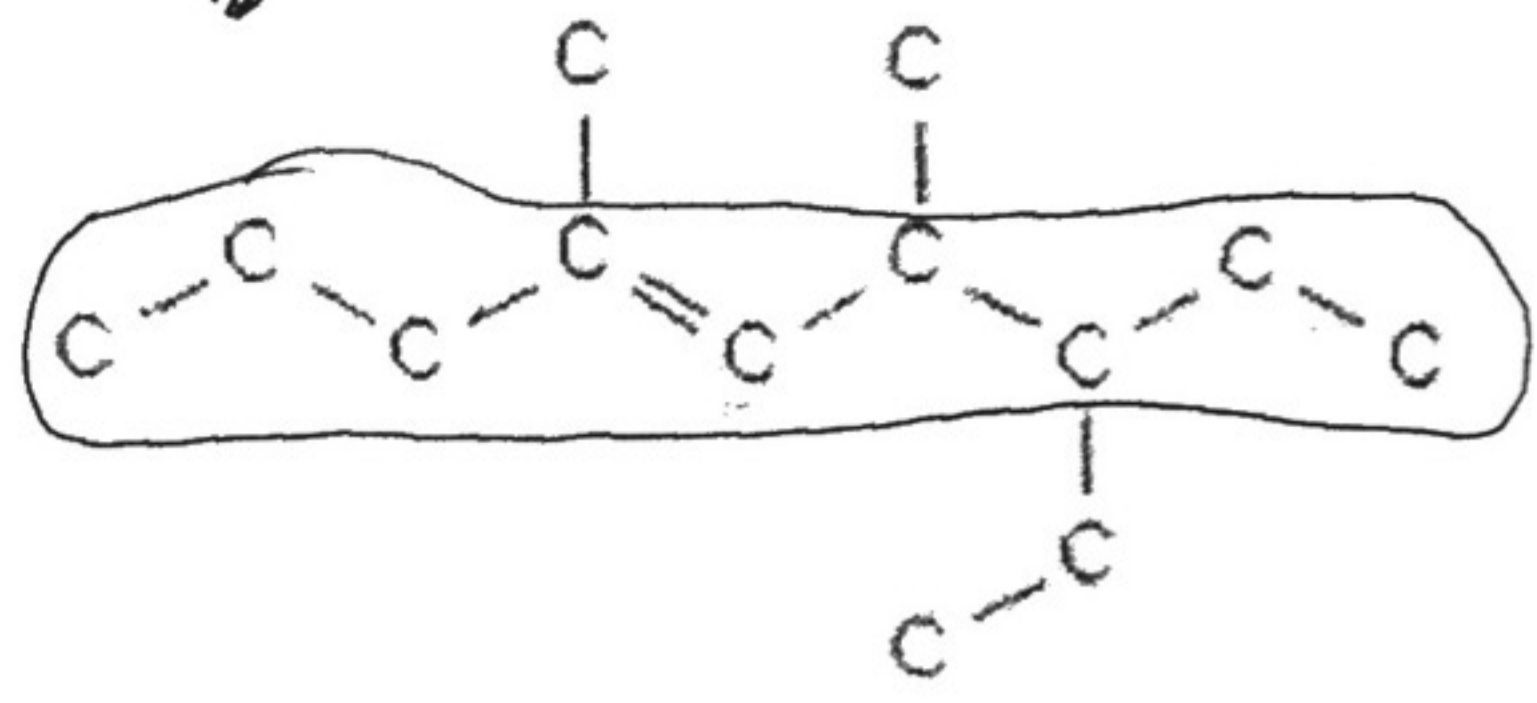
4-methyl-2-heptene

19.



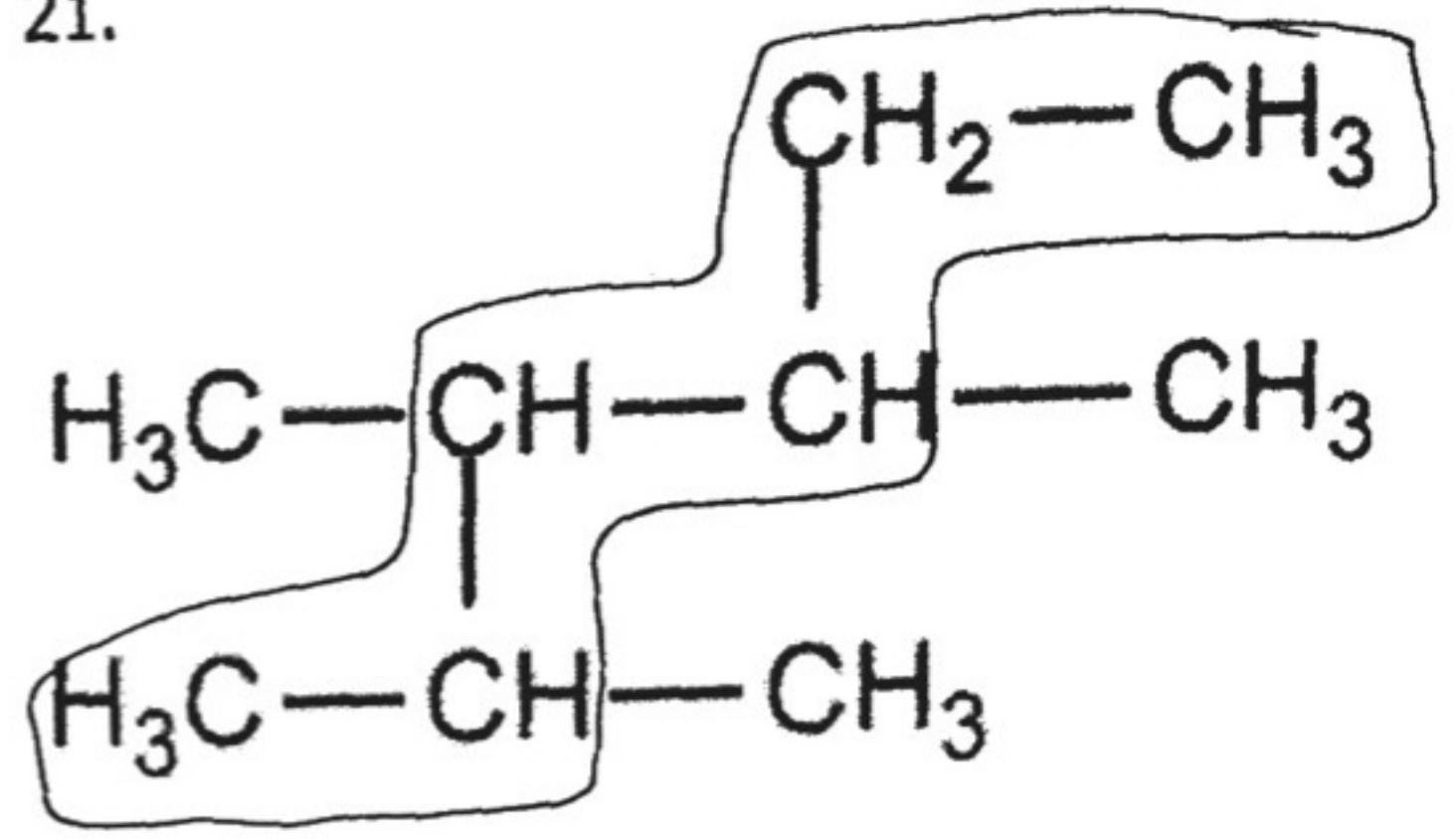
3,4-dimethyl heptane

20.



7-ethyl-4,6-dimethyl-4-nonene

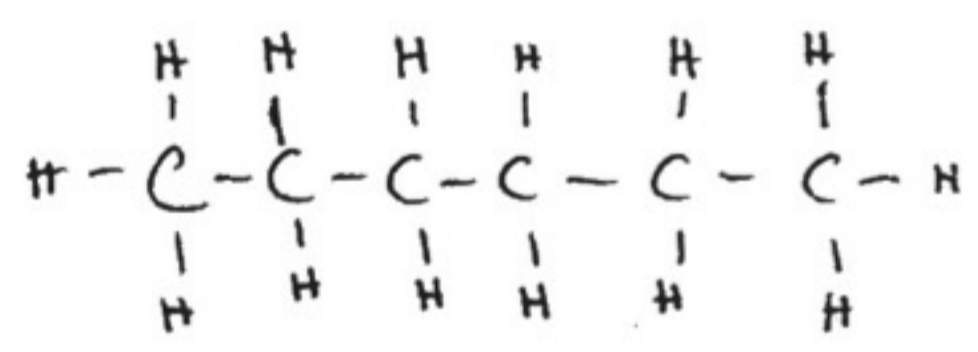
21.



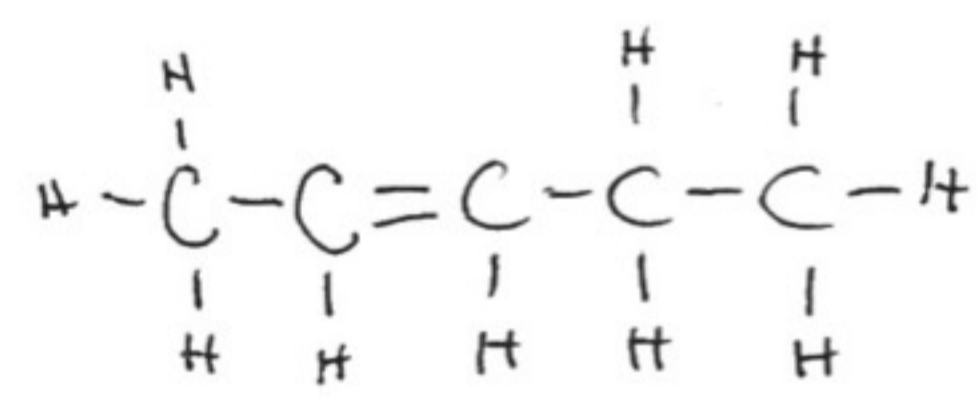
2,3,4-trimethylhexane

Draw the structures for the following compounds.

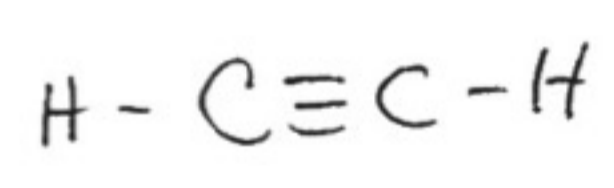
22. Hexane



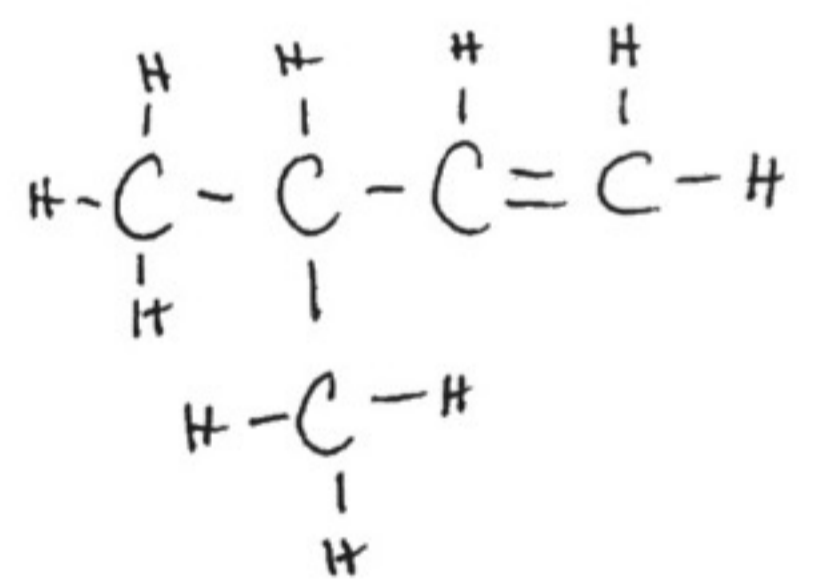
23. 2-Pentene



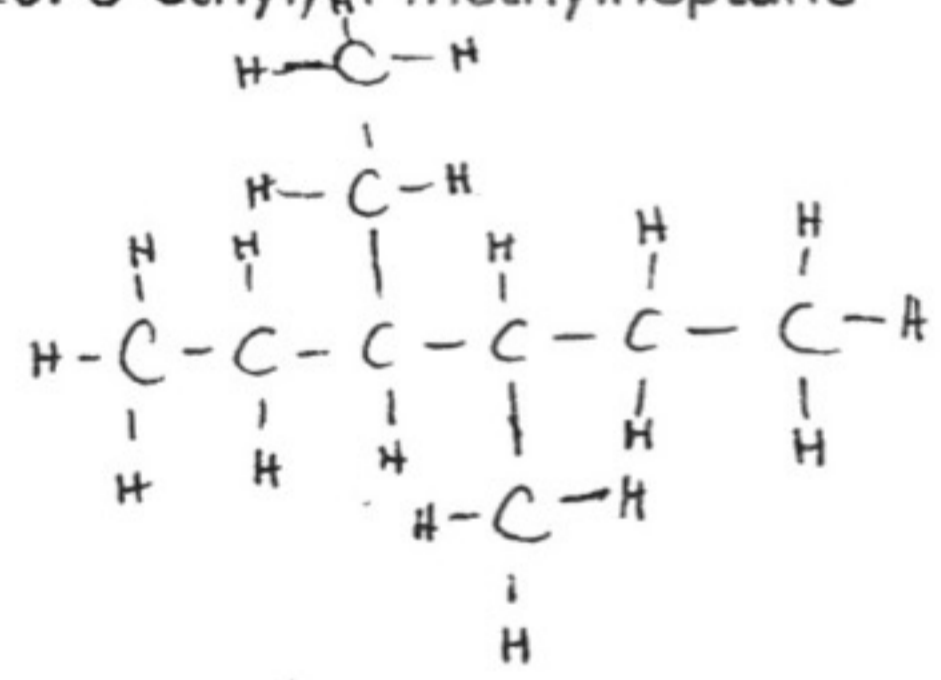
24. Ethyne



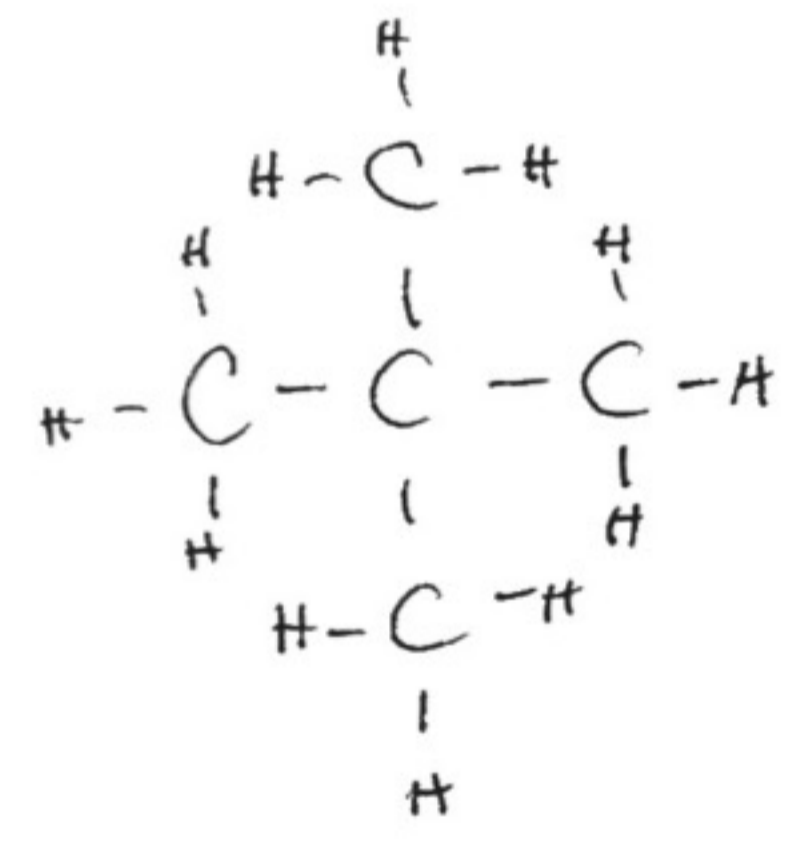
25. 2-methyl 3-butene



26. 3-ethyl, 4-methylheptane



25. 2,2 dimethylpropane



26. 4,5,5-triethyl 3,6,6-trimethylnonane

