

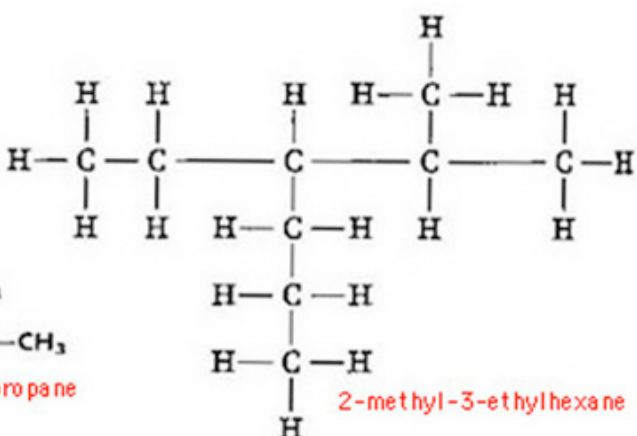
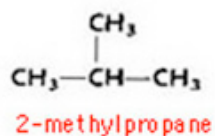
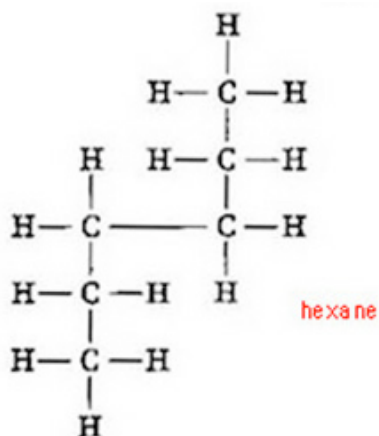
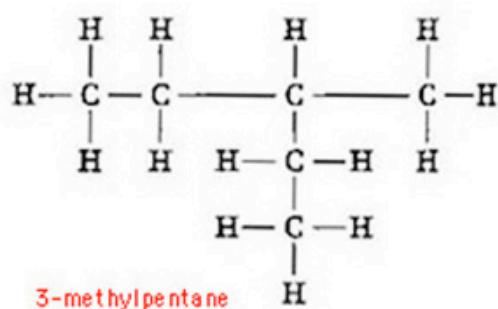
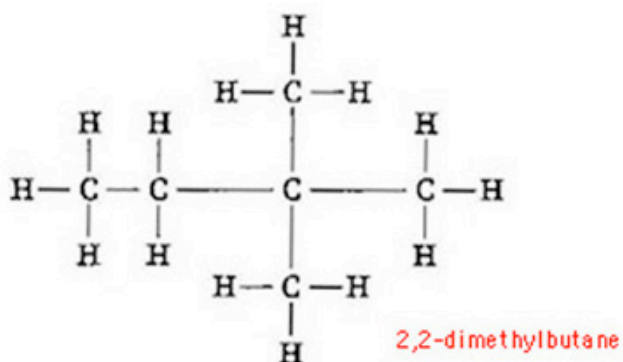
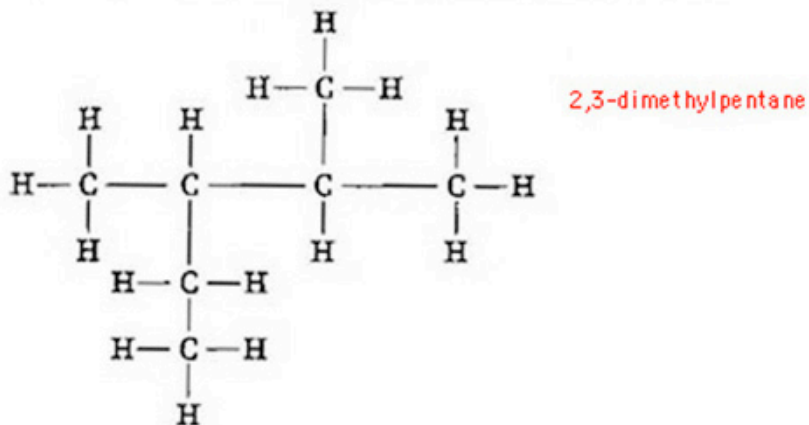
# Big Chem: Unit 29 Organic Chemistry

PRINT Name \_\_\_\_\_ Period \_\_\_\_\_

Cover the **red** answers, write your answers, then check yourself.

Problems 1 & 3 (no 2):

1. What is the correct name for this compound?



3. Write structural formulas for the following.

a. methylpropane

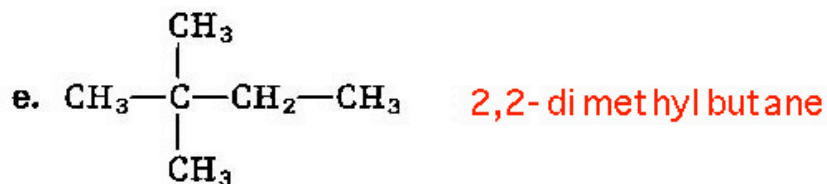
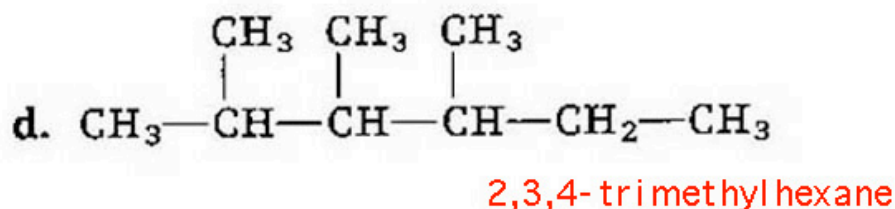
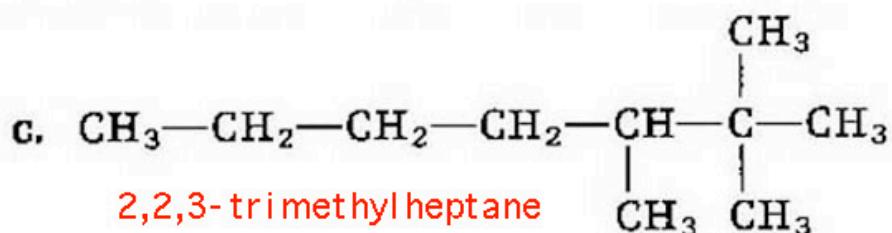
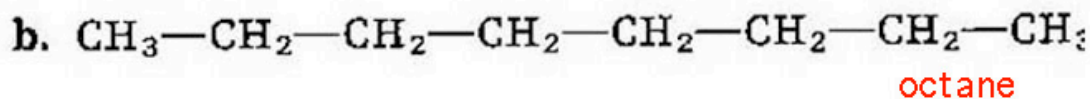
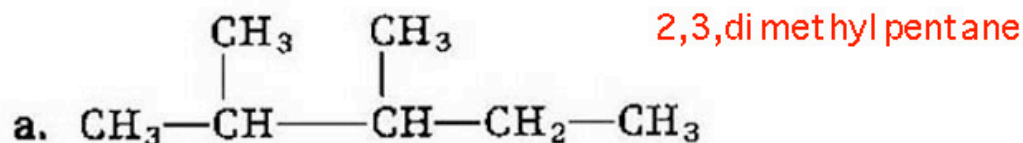
b. 2,3,4-trimethyloctane

c. 2-methyl-3-ethylhexane

d. 4-propyloctane

Problems 4-7:

4. Name the following.



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5. Draw structural formulas (condensed form) for the following.

a. 2-methylheptane

b. tetramethylbutane

c. 2,2,4-trimethylpentane

d. 3-ethyl-2-methylpentane

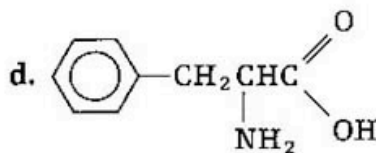
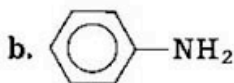
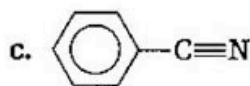
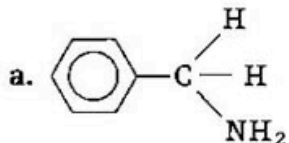
e. 3-ethylhexane

6. Draw structural formulas for all the isomers of hexane.

7. Name each isomer in Problem 6.

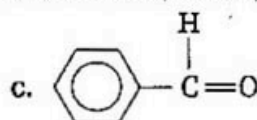
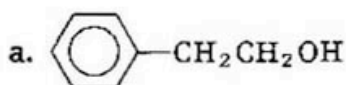
## USE THE PROBLEM NUMBERS THAT ARE GIVEN:

23. Classify each of the following as a(n) amine, amide, nitrile, or amino acid.



a) amine    b) amine    c) nitrile    d) amino acid

24. Classify each of the following as a(n) alcohol, ether, aldehyde, or ketone.

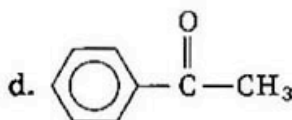
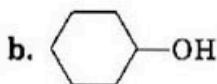


a) alcohol

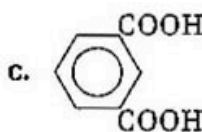
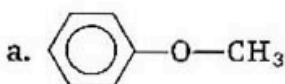
b) alcohol

c) aldehyde

d) ketone



25. Classify each of the following as a(n) ester, carboxylic acid, aldehyde, ether or alcohol.

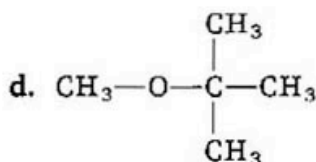
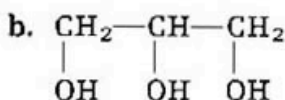


a) ether

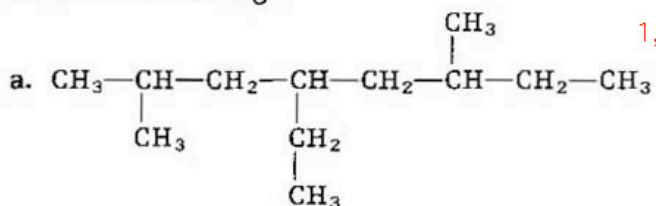
b) alcohol

c) acid

d) ether

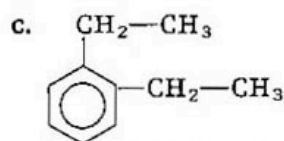
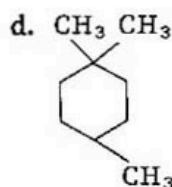
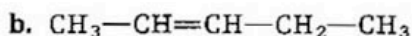


29. Name the following.

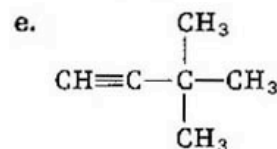


1,1,4-trimethylcyclohexane

2,6-dimethyl-4-ethyloctane

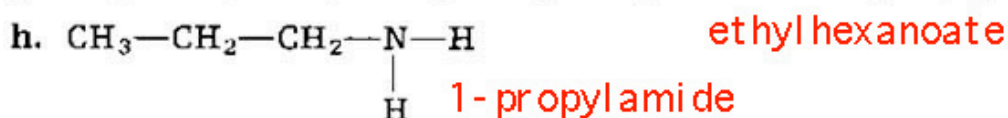
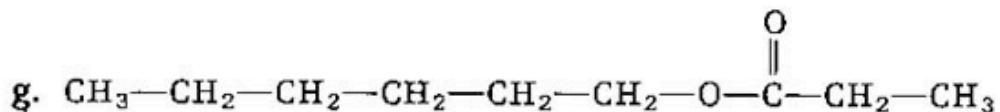
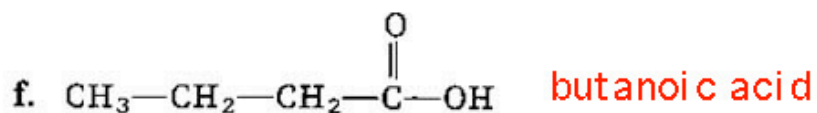
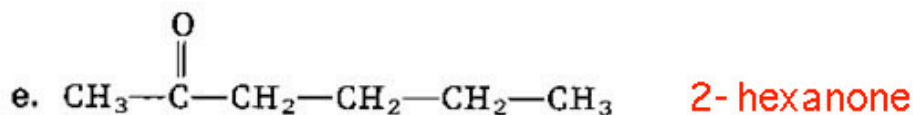
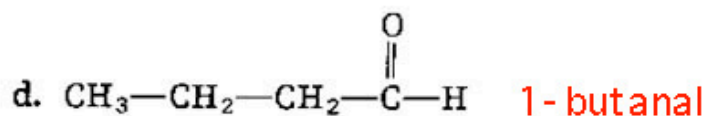
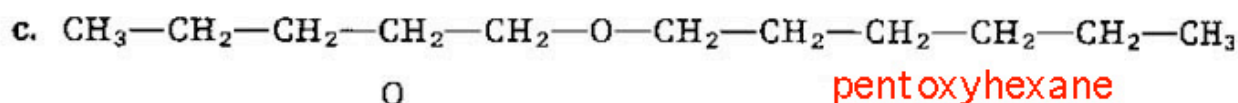
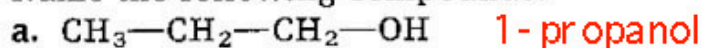


1,2-dimethylbenzene



3,3-dimethyl-1-butyne

32. Name the following compounds.



33. Draw structural formulas for the following compounds.

a. 1-butanol

b. 2-methyl-1-propanol

c. 1-propoxybutane

d. ethanal

e. 3-pentanone

f. propyl methanoate

g. trimethylamine

h. propanoic acid

i. propanamide

j. nitromethane

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Turn in at the Beginning of the Period when due.