

Chemistry II  
**Worksheet 6-1**  
**Hydrocarbons and Isomers**

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

Draw the correct structural formulas.

1. methane

2. propane

3. octane

4. 2-methyl pentane

5. ethyl hexane

6. 2,3-dimethyl butane

7. cyclohexane

8. methyl cyclopentane

9. 1,3-dimethyl cycloheptane

10. 1-ethyl, 3-methyl cyclohexane

11. ethene

12. propene

13. 2-methyl,1-butene

14. ethyne

15. propyne

16. 3-ethyl-2-hexene

17. 1,3-butadiene

18. 1,2-pentadiene

19. methyl, 1,3- butadiene

20. cyclohexene

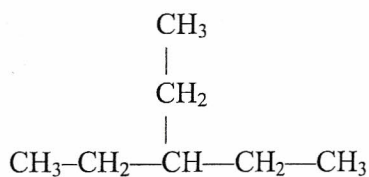
21. benzene

**Draw the isomers for each molecular formula. Then, name each structure.**25.  $C_4H_{10}$  (2 isomers)26.  $C_5H_{12}$  (3 isomers)27.  $C_4H_6$  (2 isomers)

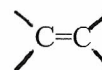
28. Draw and name the 3 structural isomers of dimethyl benzene. [ortho, meta, para]

**Name the following hydrocarbons.**

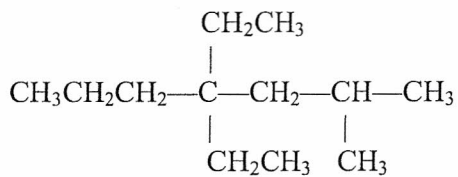
45. \_\_\_\_\_



46. \_\_\_\_\_



47. \_\_\_\_\_



48. \_\_\_\_\_

