

1. Draw four structural isomers for C_7H_{16} . (There are at least 8 of them...)

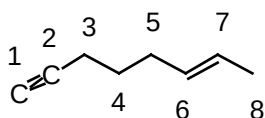
2. Draw the structure for 2-chloro-3-methylheptane.

3. For the structure shown, what would be the geometry at C-2, C-3, and C-6? (choices: tetrahedral, trigonal planar, and linear).

C2:

C3:

C6:

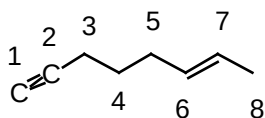


4. For the structure shown, what would be the bond angles at C-2, C-3, and C-6?

C2:

C3:

C6:

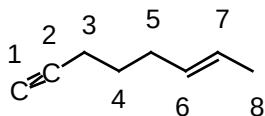


5. For the structure shown, how many H's would be attached at C-2, C-3, and C-6?

C2:

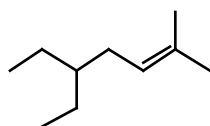
C3:

C6:



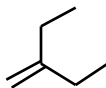
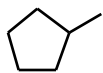
6. Draw the structure for 4-ethyl-2-methyl-2-octene.

7. Give the name for the following:



Due: Wednesday, December 1

8. Which of the following would not have the formula C_6H_{12} ?



9. Shown below is 1-pentene. Draw two structural isomers. (There are many more than two...)



10. Draw the molecule 2-methylbutane. Classify each of the carbons as primary (1°), secondary (2°), tertiary (3°), or quaternary (4°).

11. Which of the following statements is false:

- That carbon makes four bonds contributes to the large number of carbon compounds in the world
- That carbon makes double and triple bonds as well as single bonds contributes to the large number of carbon compounds in the world
- Aromatic compounds have a planar 6-carbon ring
- An unsaturated compound has single bonds only; a saturated compound has double and/or triple bonds present.

Did you remember to write your name on the front?