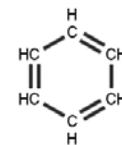
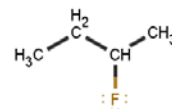
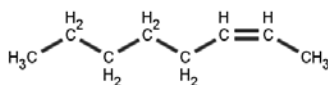
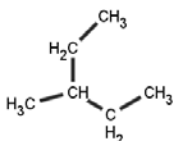
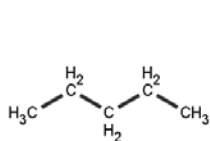


Carbon Structures and Functional Groups

For problems 1-4, refer to these compounds



- Convert each of the following condensed structures to a skeletal structure. Remember that lone pairs should always be shown.
- Name each of the compounds.
- Draw one isomer of each compound from problem 1. State whether it is a structural or stereoisomer.
- Which compound is will have the highest solubility in water? Explain your answer.

5. Draw the skeletal structure of a four carbon compound that contains each functional group.

Alcohol

Amine

Amide

Ether

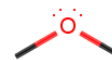
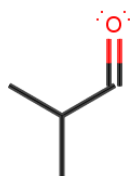
Carboxylic Acid

Ester

Aldehyde

Ketone

Refer to these compounds for the remaining questions:



6. Convert each of these structures to a condensed Lewis structure. Remember that lone pairs should always be shown.

7. Identify the common functional group present on each compound.

8. Draw one isomer of each compound. If the type of functional group changes, determine what the new group is.