

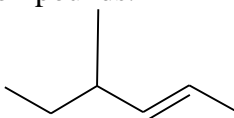
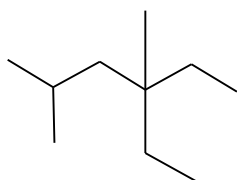
Power Point Study– 02-1 Functional Groups-Organic Structures/ Name:

1) What is the empirical formula for a compound of molecular formula is C_6H_{12} ?

2) Give the line structure of the following compounds.

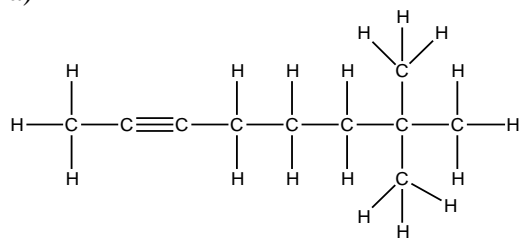


3) Give the condensed structure of the following compounds.

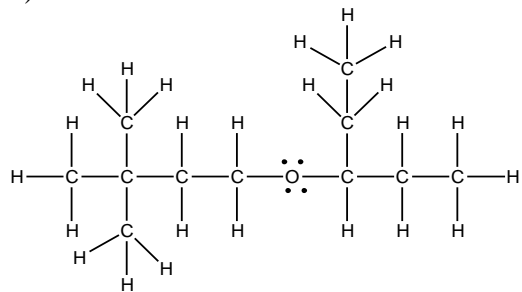


4) Write the condensed and the line structure of the following expanded structures.

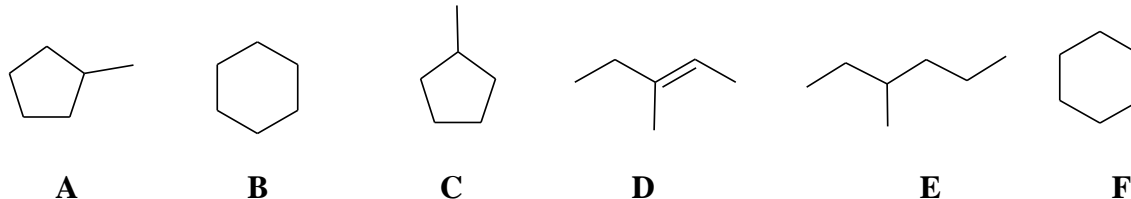
a)



b)



5) Answer the following questions using the following structures.



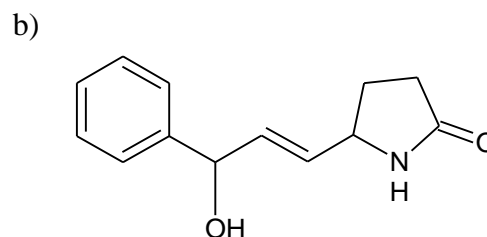
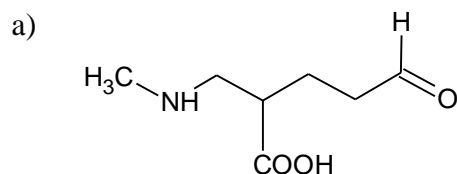
a) Which of the following compounds are exactly the same? _____

b) Which compounds have the same molecular formula? _____

c) Which compound has the lowest number of hydrogens? _____

d) Which compound has the highest number of hydrogens? _____

6) Circle and identify the functional groups in the following compounds.



7) The compound shown below is a synthetic estrogen. It is marketed as an oral contraceptive under the name Enovid. The functional groups present in it are:

- A) Ether, alcohol, alkyne.
- B) Aldehyde, alkene, alkyne, alcohol.
- C) Alcohol, carboxylic acid, alkene, alkyne.
- D) Ketone, alkene, alcohol, alkyne.
- E) Amine, alkene, ether, alkyne.

