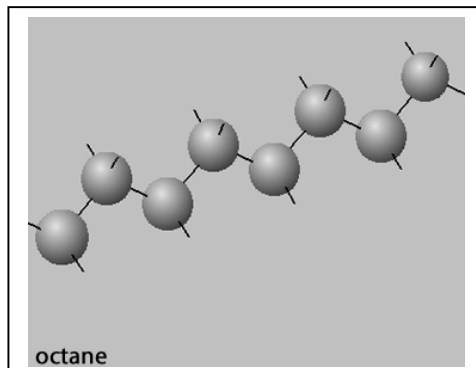


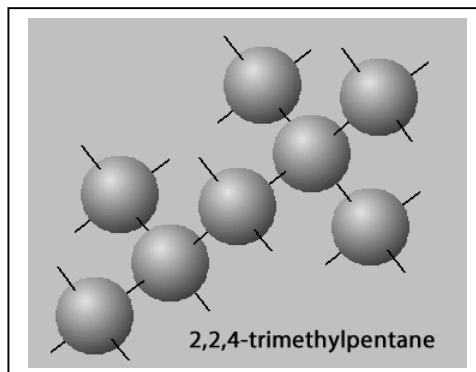
Trends of branched and straight chain hydrocarbons

1) Consider the molecular structures of three isomers with the molecular formula C_8H_{18} .

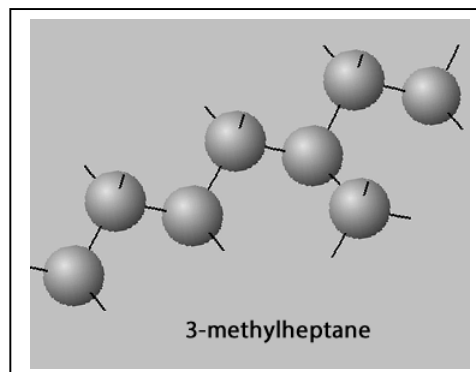
a. Place the 3 isomers in order of increasing boiling point.



b. Justify your answer to question a. above.



c.



d. Write the semi-structural formula of 2,5-dimethylhexane in the space provided and suggest where it would fit in the order you have given in question a. above.

e. Justify your answer.