

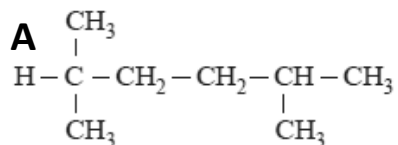
Friday Worksheet

Name:

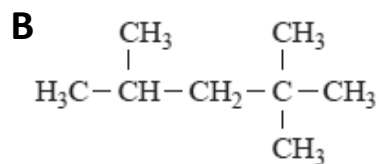
Organic worksheet 3

- 1) Give the systematic IUPAC name for the molecules shown on the right .

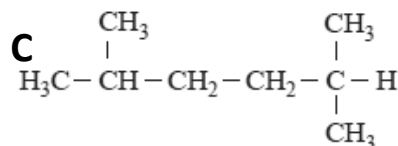
A) _____



B) _____



C) _____



- 2) Give the structural and semi-structural formulae of the following molecules.

a) 3-ethylhexane



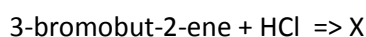
b) 2, 4-dimethylpentane



3) Which one of the following compounds is most soluble in water at room temperature? Explain

- a) Propane
- b) Propene
- c) Butan-2-ol
- d) Butanoic acid

4) 3-bromobut-2-ene and HCl react according to the equation below.

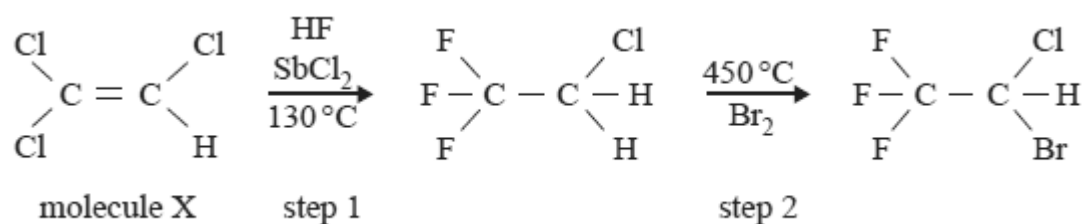


- a) Give the possible structural formulae and systematic names of X
- b) What type of reaction is this?

5) Which of the following compounds are isomers of 2,2,4-trimethylpentane

- a) octane
- b) 3-ethylhexane
- c) 2, 4-dimethylpentane
- d) 2,4-dimethylhexane

6) Below is the diagram of the formation of halothane.



- a) Give the IUPAC systematic name for halothane
- b) What type of reaction is step 2?