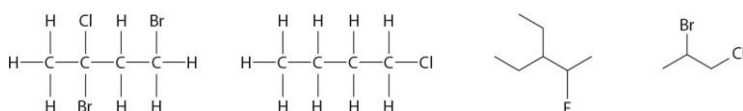


Name _____ Date _____

Worksheet 21.1: The formation of halogenoalkanes in radical reactions

1 Name the following halogenoalkanes:



2 Cyclohexane reacts with bromine in the presence of ultraviolet light.

a Write a balanced chemical equation for this reaction using structural formula.

b Draw the mechanism for the reaction, showing each steps clearly.

c Explain the terms free radical and homolytic fission.

d Considering only structural isomers, how many monosubstituted organic products are there when methylcyclohexane reacts with bromine?
