

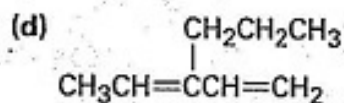
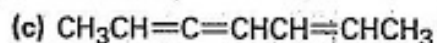
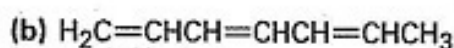
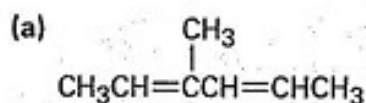
Problem 14.2

Give the structures of both 1,2 and 1,4 adducts resulting from reaction of 1 equivalent of HCl with 1,3-pentadiene.

Problem 14.3

Look at the possible carbocation intermediates produced during addition of HCl to 1,3-pentadiene (Problem 14.2), and predict which 1,2 adduct predominates. Which 1,4 adduct predominates?

Problem 14.20 Give IUPAC names for the following compounds:

**Problem 14.21**

Draw and name the six possible diene isomers of formula C_5H_8 . Which of the six are conjugated dienes?