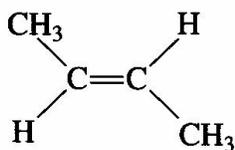


REVIEW QUESTIONS

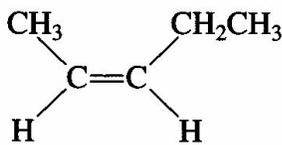
Chapter 20

1. Identify each of the isomers below as cis- or trans- and name using the IUPAC system:

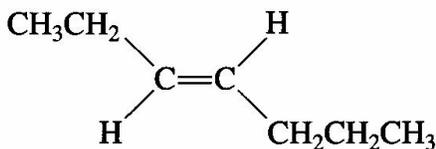
a)



b)

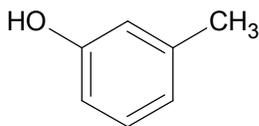


c)

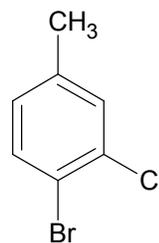


2. Name each aromatic compound shown below as a toluene derivative:

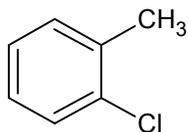
a)



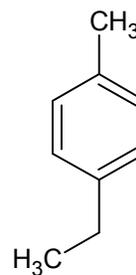
c)



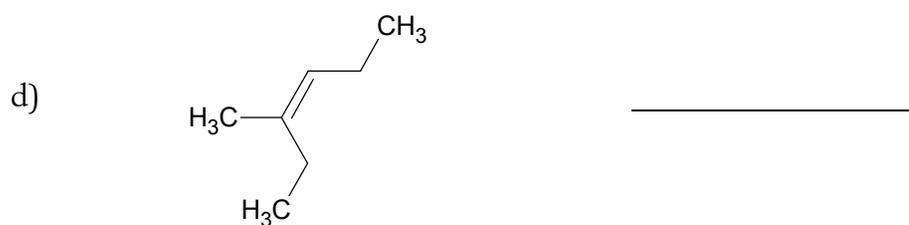
b)



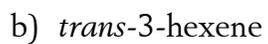
d)



3. For each compound shown below, determine if a cis/trans isomer is possible or not.



4. Write condensed structural formula for each compound below:



5. Complete each of the reactions shown below. If reactions produce more than one isomer, draw structure and name each isomer.

