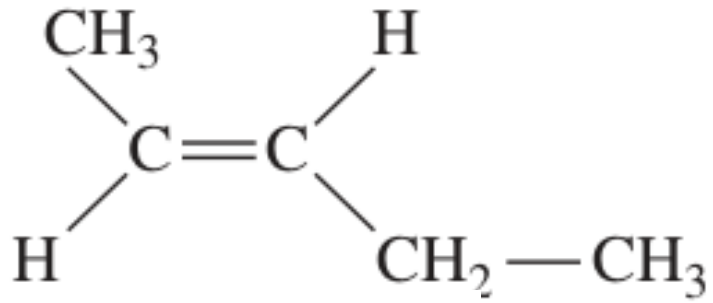
Chapter 11

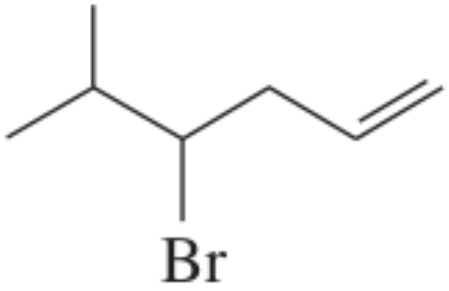
Worksheet

Give the IUPAC name (including cis or trans, if needed) for each of the following

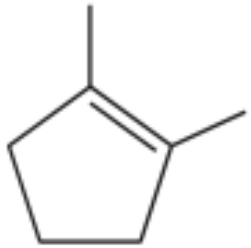
a.



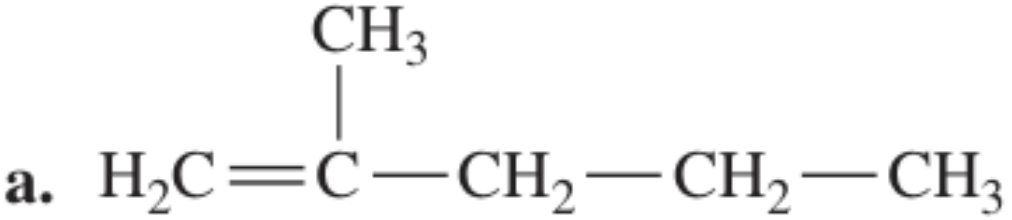
b.



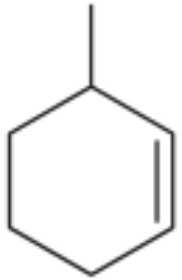
c.



a.



b.



c.

- Draw the condensed structural or line-angle formula if cyclic, for each of the following:
  a. bromocyclopropane
  b. 1,1-dibromo-2-pentyne
  c. cis-2-heptene

- Draw the skeletal formula for each of the following:
  a. toluene
  b. cyclopentene
  c. 2,3-dichloro-1-butene

- Draw the cis and trans isomers for each of the following:

  a. 2-pentene

  b. 3-hexene

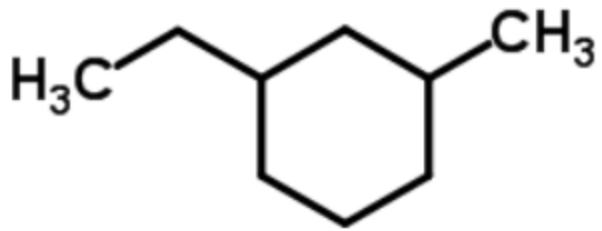
- Draw the line-angle formula for each of the following:

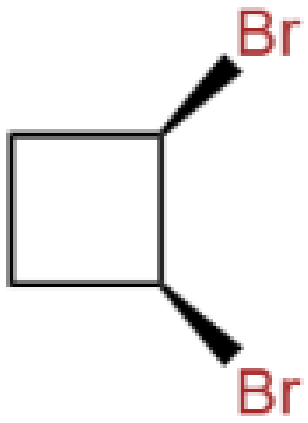
  a. ethylbenzene

  b. 2,5-dibromophenol

  c. 3-chloroaniline

- Give the correct IUPAC name for each of the following cycloalkanes:





- Draw the skeletal structure for the following:

a) 1-ethyl-2-methylcyclopentane

b) 1,3-dichlorocyclobutane

- Give the IUPAC name for each of the following:

  a. $CH_3–C≡C–CH_2–CH_3$

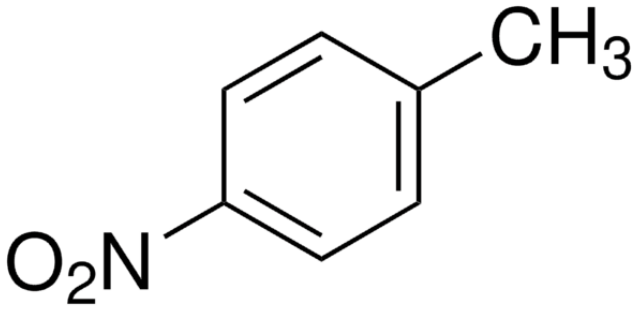
  b. $CH_3–CH_2–C≡C–CH_3$

  c. $CH_3–CH=CH–C≡CH$

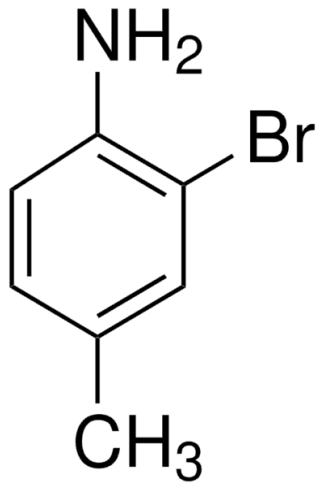
- Draw the line-angle structure for:
  - 4-methyl-2-pentyne
  - 3-methyl-1-pentyne

- Give the IUPAC name for each aromatic compound:

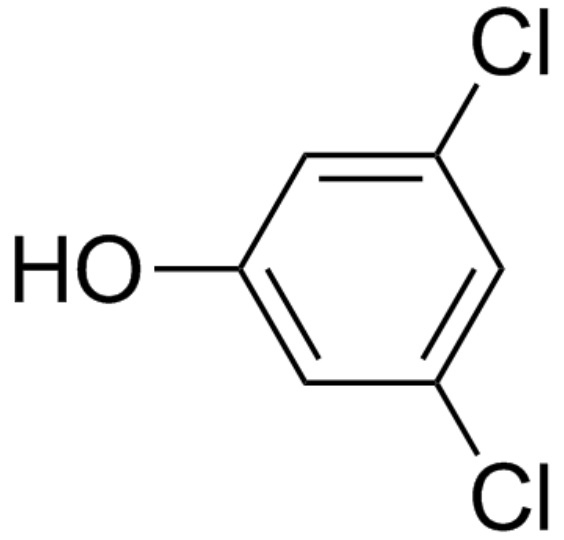
a)



b)



c)



- **Draw the skeletal structure for each of the following:**

a) 4-bromotoluene

b) 2-chloroaniline

c) 3-nitrophenol