

Answer Key to Ch 4 even assigned problems:

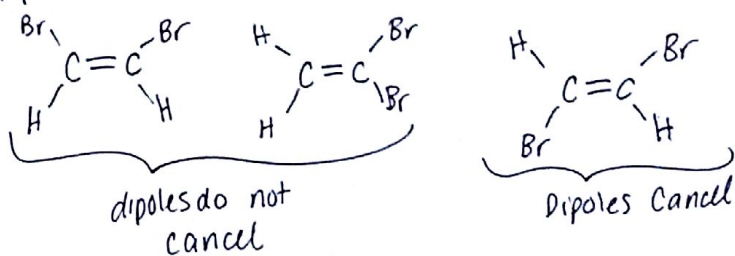
4.20 - I will provide the correct name:

- a. 2-methyl-1-butene
- b. 4-isopropylcyclohexene
- c. (E or Z)-3-methyl-2-hexene
- d. 2-ethyl-3-methyl-1-pentene
- e. 3,3-dimethylcyclohexene
- f. (E or Z)-3-methyl-3-heptene

4.22 only "b" has cis-trans isomer:



4.24



4.28 a.) (E)-1-chloro-2,3-dimethyl-2-pentene

b.) (Z)-1-bromo-1-chloropropene

c.) (E)-2,3,4-trimethyl-3-heptene

d.) (E)-3-ethyl-2-hexene

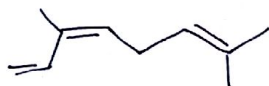
4.32 a.) 2-methyl-1-pentene

b.) 3,4-diethyl-3-hexene

c.) 2,3-dimethyl-2-hexene

d.) 2,3-dimethyl-1,3-butadiene

4.34



(3Z)-3,7-dimethyl-1,3,6-octatriene

4.36 a.) cis-trans

b.) different conformations

c.) different conformations

d.) different conformations

4.38 b.) All double bonds have (E) config. except the two that are part of the cyclohexene rings