Stereochemistry

from chapter(s)	in the recommended text
morn chapter(3)	iii tiic recommended text

A. Introduction

B. Priority Rules

higher atomic mass takes priority.



չ,NMe₂



Substituents Connected Multiple Bonds

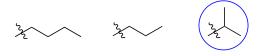
The problem is: ____the first atom of the substituents is the same for every molecule.

eg is equivalent to

is equivalent to

is equivalent to

Br is equivalent to



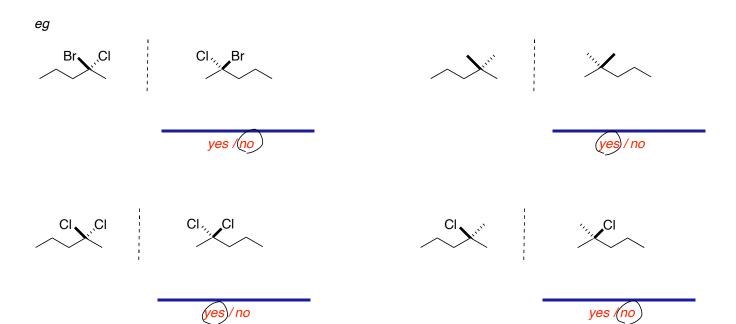
na

means the same as E / Z.

na

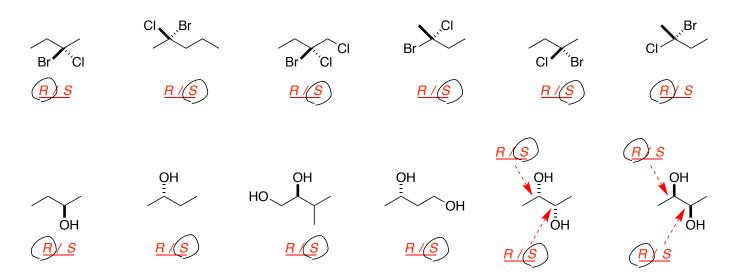
Z- na E- E- Z- Z-

D. Chiral Centers



<u>do not</u> absolutely (remove) require that there be four different groups on a carbon atom. enantiomers, regardless of whether

<u>can</u>



always <u>S-</u>. always <u>S,S-</u>. an <u>S,S-</u>configuration.

<u>do</u>

optical rotation,

compound concentration / temperature / wavelength of the light / solvent.

do not rotate

true

tartaric acid

$$HO_2C$$
 N
 CO_2H
 HO_2C
 N
 N
 CO_2H

$$\Pr \begin{matrix} \mathsf{NH_2} \\ \mathsf{Ph} \end{matrix} \begin{matrix} \mathsf{Ph} \\ \vdots \\ \mathsf{NH_2} \end{matrix}$$

F. Prochirality

<u>do not</u> <u>true</u>.

all pro-R.

are all pro-S.

are prochiral.

<u>true</u>.

all Re-

all Si-.



$$\frac{H_2}{Re\text{-face}}$$