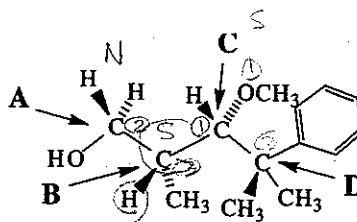


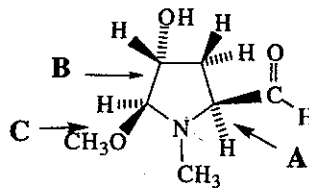
3. Provide the stereochemical configuration for each stereocenter. If the atom is not a stereocenter, then select "N".



- a) A is R; B is S; C is R; D is N
 b) A is N; B is R; C is R; D is N
 c) A is N; B is S; C is S; D is R
 d) A is N; B is S; C is R; D is N
 e) A is N; B is R; C is S; D is N

ANS. e)

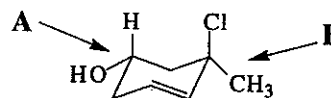
4. Provide the stereochemical configuration for each stereocenter. If the atom is not a stereocenter, then select "N".



- a) A is S; B is N; C is S
 b) A is R; B is N; C is R
 c) A is S; B is R; C is S
 d) A is R; B is R; C is R
 e) A is S; B is S; C is S

ANS. c)

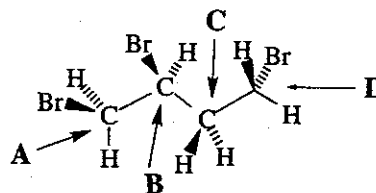
5. Provide the stereochemical configuration for each stereocenter. If the atom is not a stereocenter, then select "N".



- a) A is R; B is R
 b) A is N; B is S
 c) A is S; B is R
 d) A is R; B is S
 e) A is N; B is R

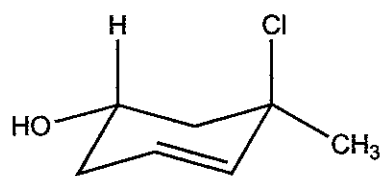
ANS. c)

6. Provide the stereochemical configuration for each stereocenter. If the atom is not a stereocenter, then select "N".

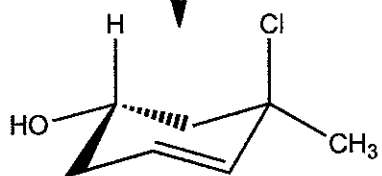


- a) A is R; B is N; C is N; D is S
 b) A is N; B is R; C is S; D is N
 c) A is N; B is S; C is N; D is N
 d) A is S; B is S; C is N; D is R
 e) A is N; B is R; C is N; D is N

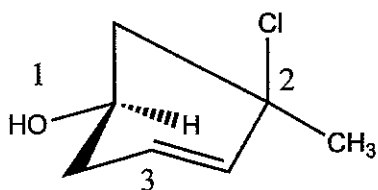
ANS. c)



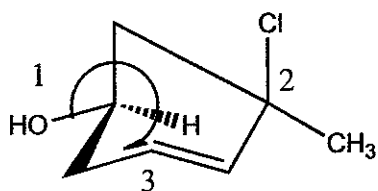
add perspective



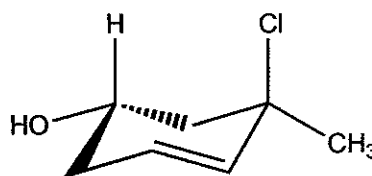
switch 2 groups
to get H in a back position



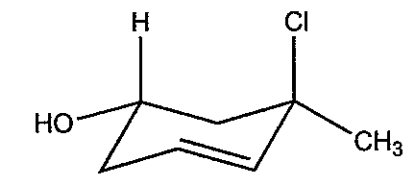
assign priorities based
on atomic number



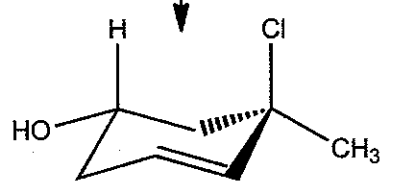
rotate through groups
from highest priority to
lowest priority, this one is
clockwise or R



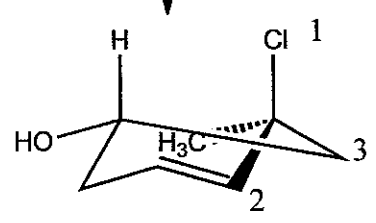
switch groups back to produce
original enantiomer, and
remember to switch
stereochemistry from R to S



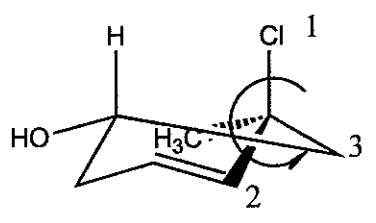
add perspective



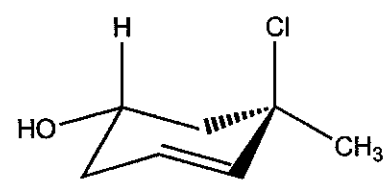
switch 2 groups to get lowest priority group in back position



assign priorities based on atomic number of attached groups, begin at the chiral center and move out until there is a difference



rotate through groups from highest priority to lowest priority, this one is counterclockwise or S



switch groups back to produce original enantiomer, and remember to switch stereochemistry from S to R

Optical activity Sections 5.8, 5.9
Optical purity Section 5.9B
Plane-polarized light Section 5.8A
Plane of symmetry Sections 5.6, 5.12A
R,S system Section 5.7
Racemic form (racemate or racemic mixture)
 Sections 5.9A, 5.9B, 5.10A
Relative configuration Section 5.15A

Resolution Section 5.16B
Specific rotation Section 5.8C
Stereochemistry Sections 5.2, 5.5
Stereogenic carbon Section 5.3
Stereogenic center Sections 5.3, 5.18
Stereoisomers Sections 5.2, 5.14
Stereoselective reaction Section 5.10B
Superposable Section 5.1

