

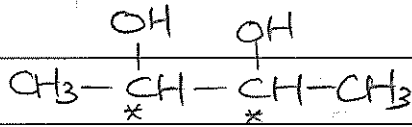
Oct 8 Ch 6 (con'd)

- "(+)" - "(-)" are used to indicate the sign of an enantiomerically pure compound's optical rotation

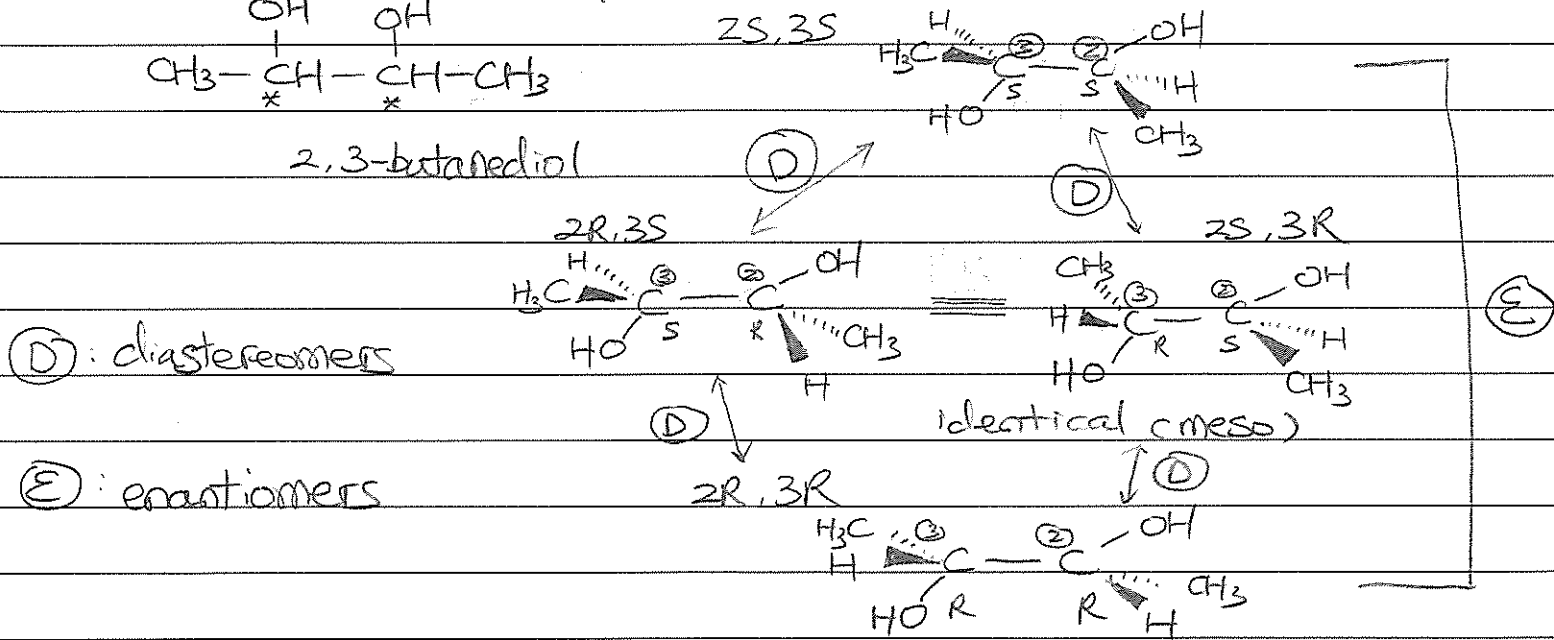
- (±) racemic mixture: equal amounts of 2 enantiomers
 racemates typically have different physical properties
 p239: "analogy of packing shoes"

- Diastereomers

Q: which one(s) are asymmetric carbon(s)?

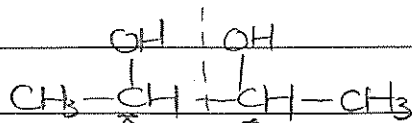


2,3-butanediol



- diastereomers differ in all of their physical properties
- meso compounds are achiral, but contains asymmetric carbons

Q: what is the difference between a meso compound and a racemate



2 halves have the same connectivity

! meso in the middle)

*C: asymmetric carbons have opposite configurations

