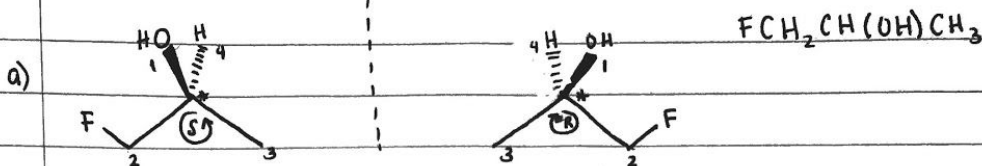
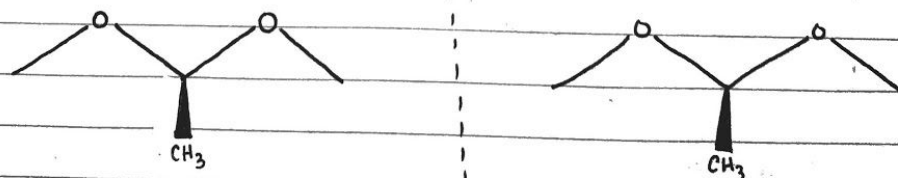
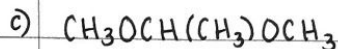
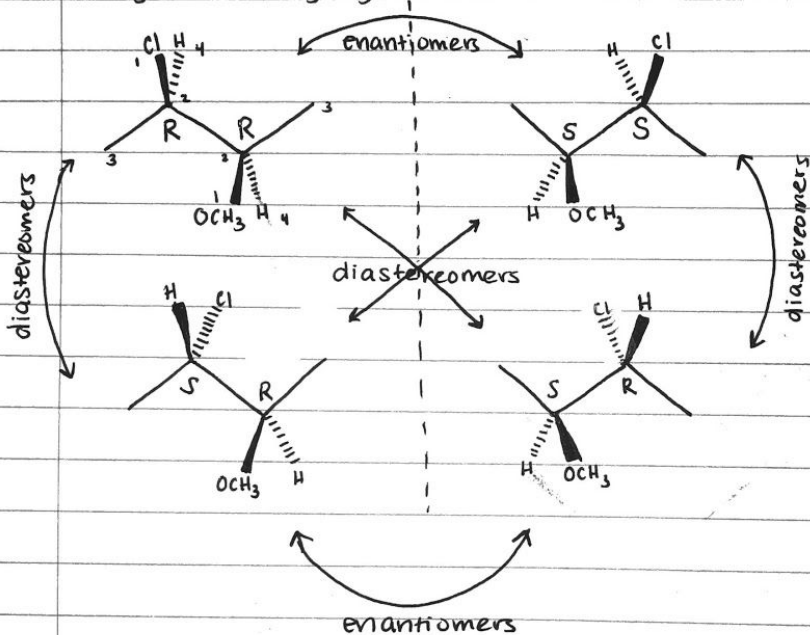


Stereochemical Analysis of Molecules a, b, c, d

PART A: ENANTIOMERS AND DIASTEREOMERS

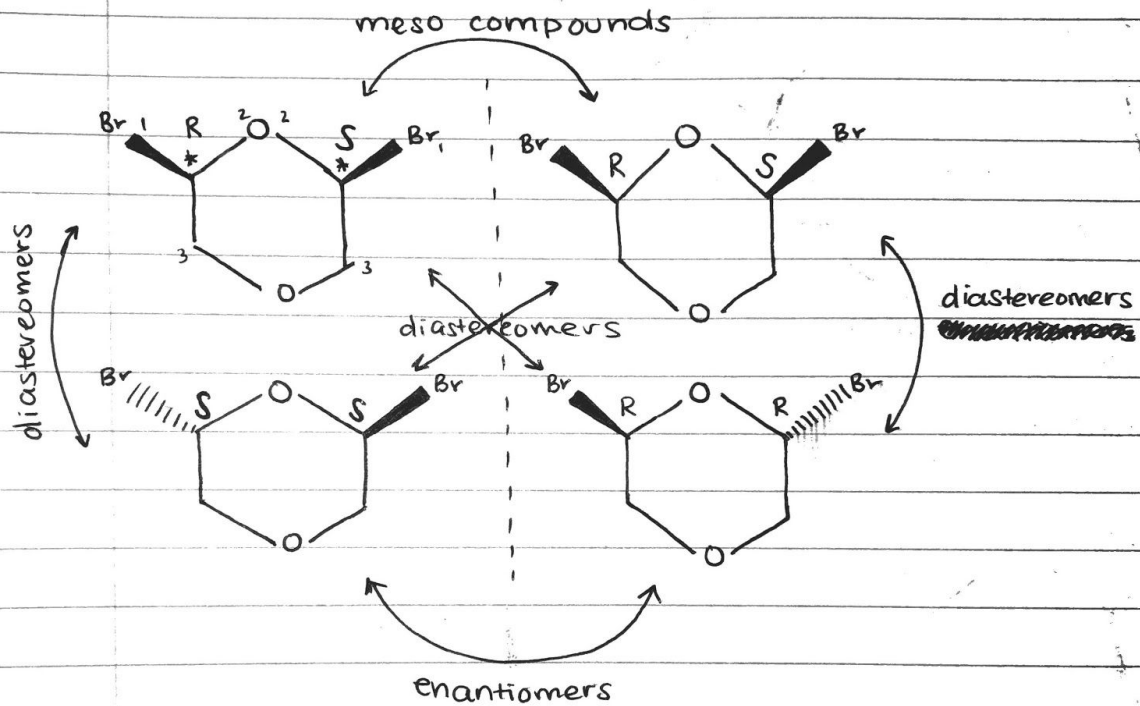
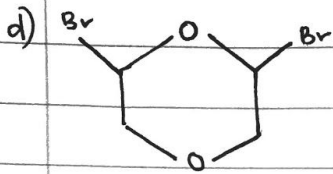


• These molecules are enantiomers

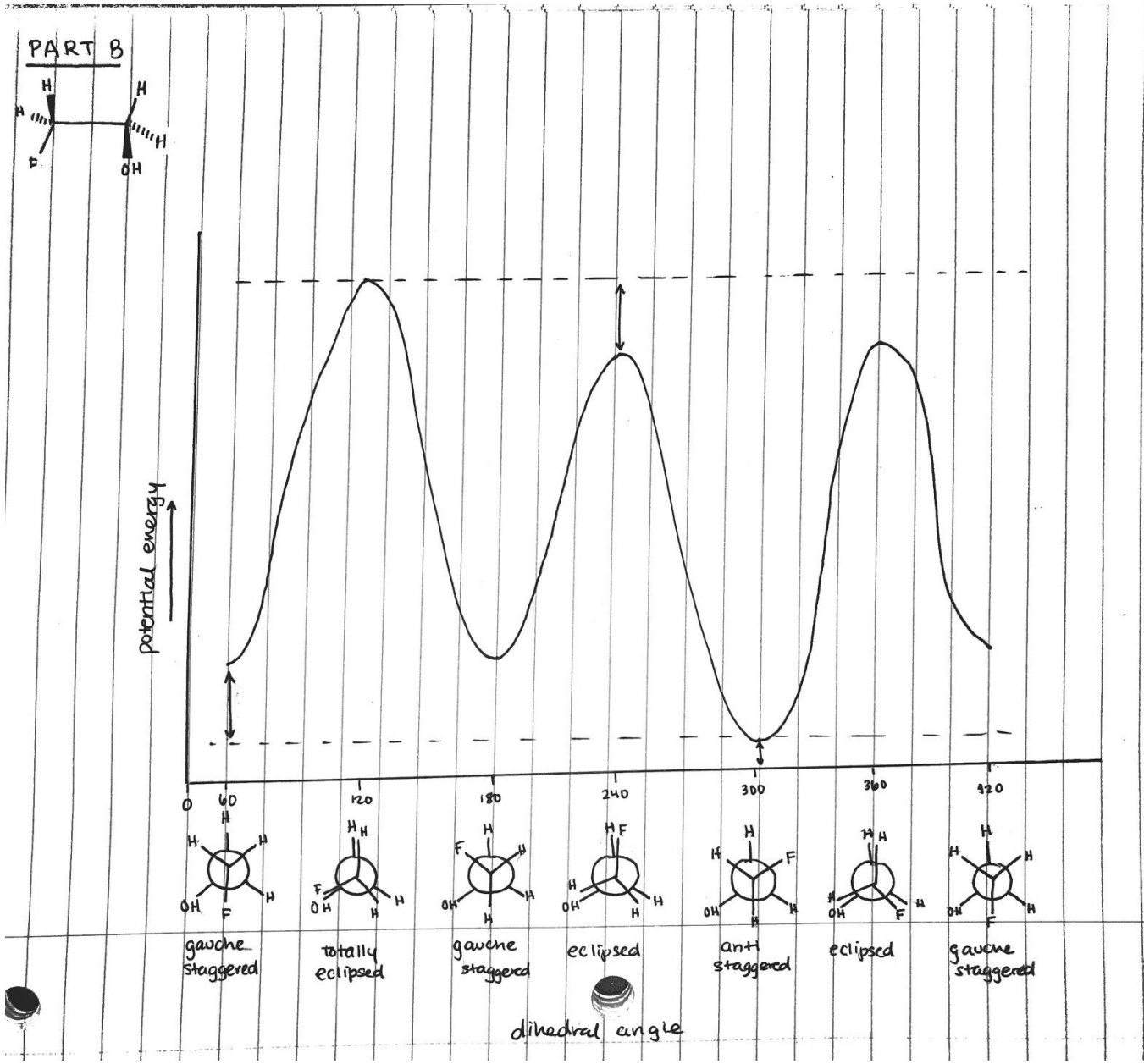


• These molecules do not have any stereocentres, therefore they are achiral

• The mirror images are superimposable

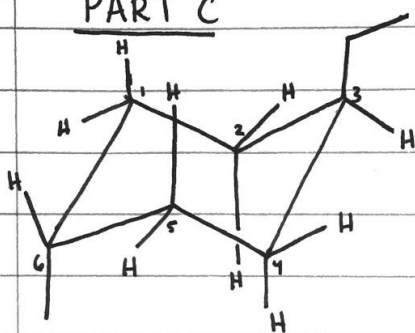


Energy Diagrams and Newman Projections

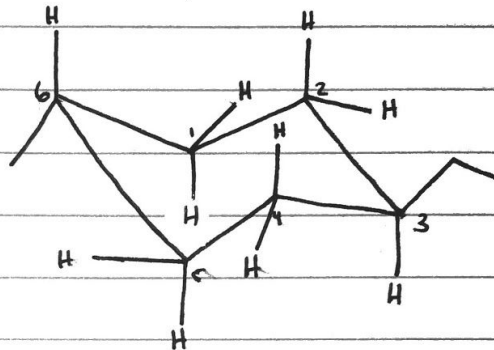


Part C: Chair Conformations

PART C



this chair conformation is less stable because the large groups are all in the axial position.



this chair conformation is more stable because the large groups are all ^{in the} equatorial position.