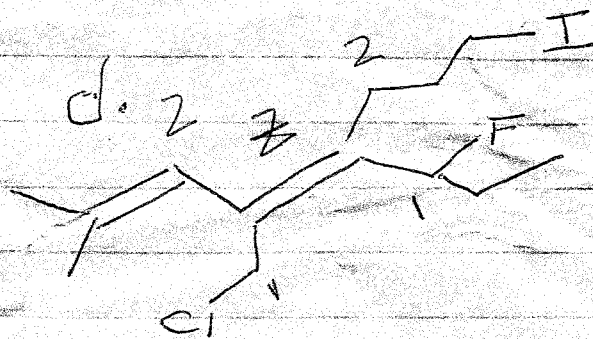
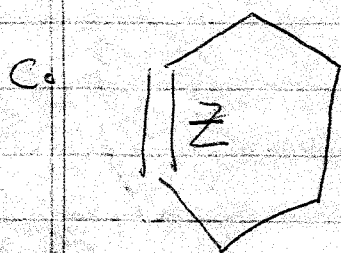
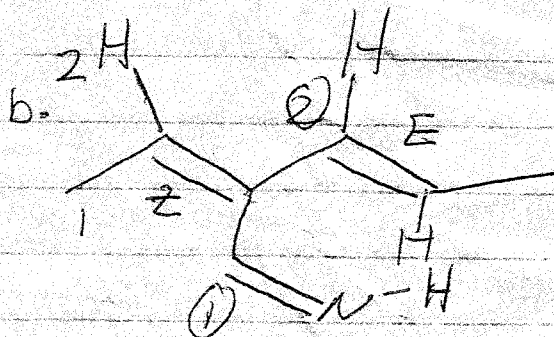
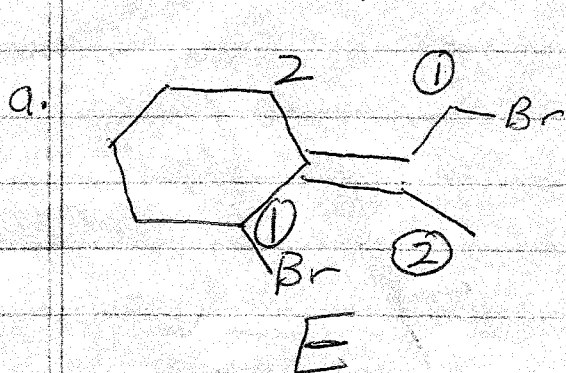


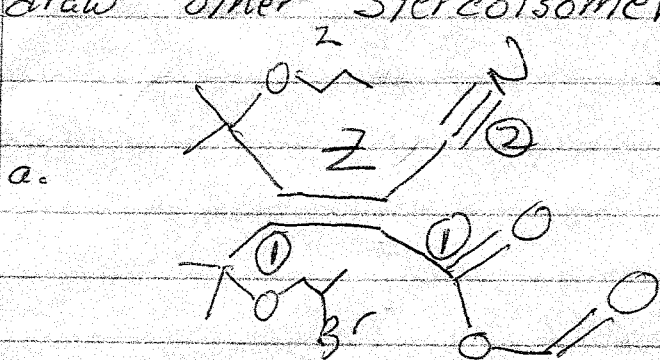
Chem 211
Worksheet for

September 23, 2011

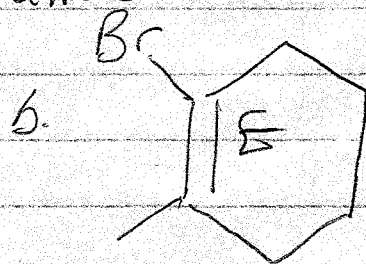
1. Assign Z or E to double bonds where it is appropriate.



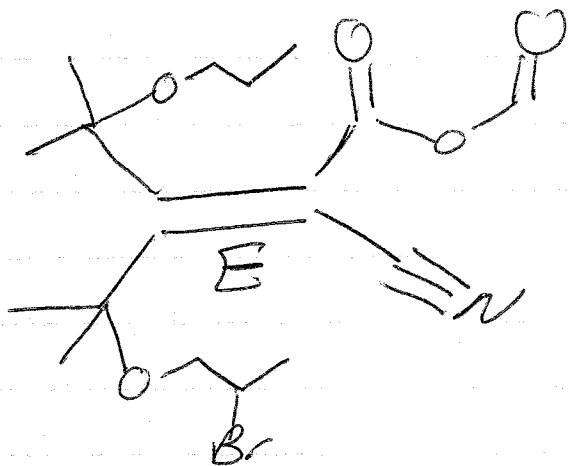
2. Assign configuration (Z, E) and draw other stereoisomer



see attached

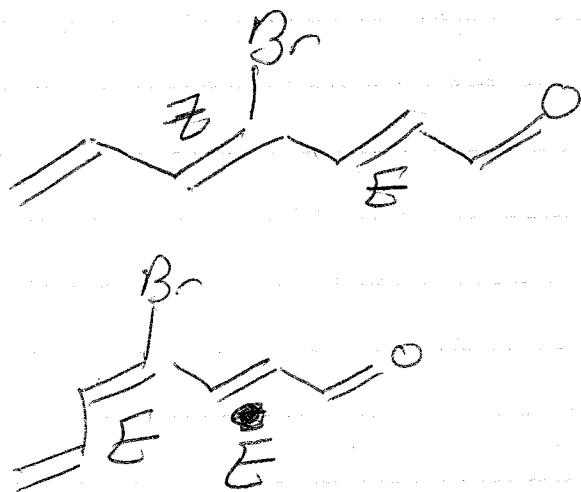
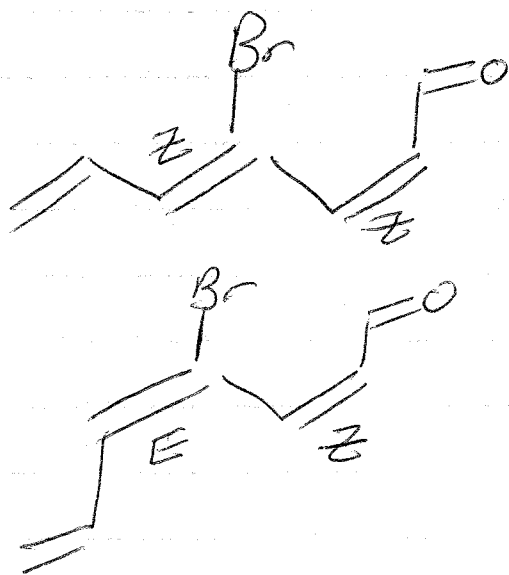


② (a) other stereoisomers



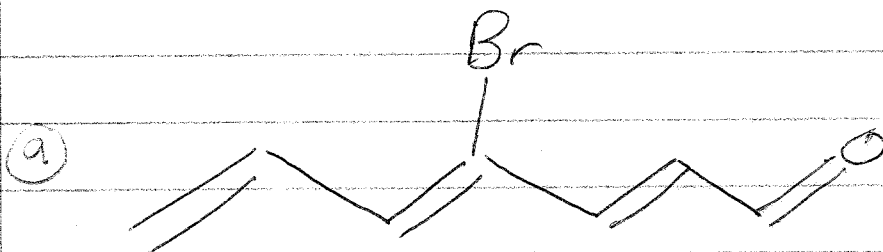
(b) In this case the Z isomer can't be drawn because ring is too small

③ (a)

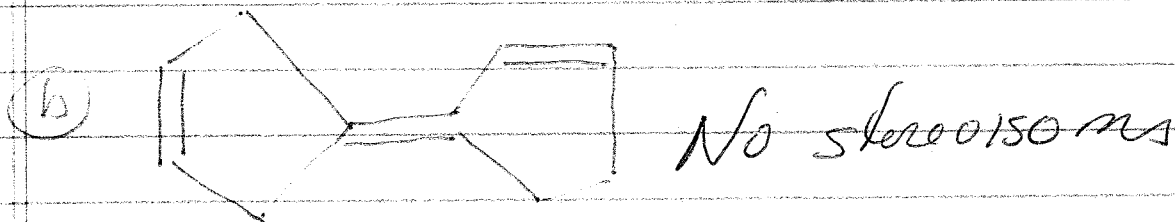


Answers

3. Draw all stereoisomers



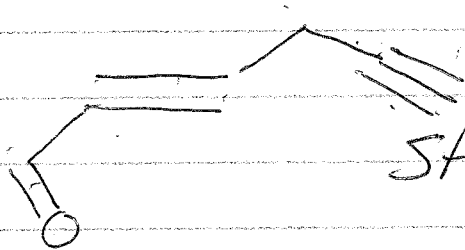
See attached



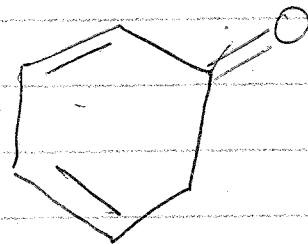
No stereoisomers

4. Draw orbital diagrams and establish relationships between pairs of molecules

a.



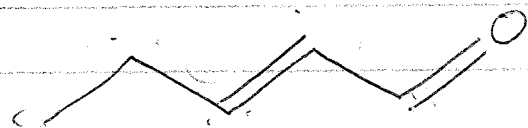
b.



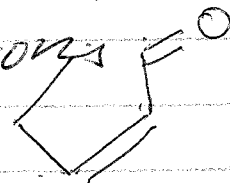
Structural isomers

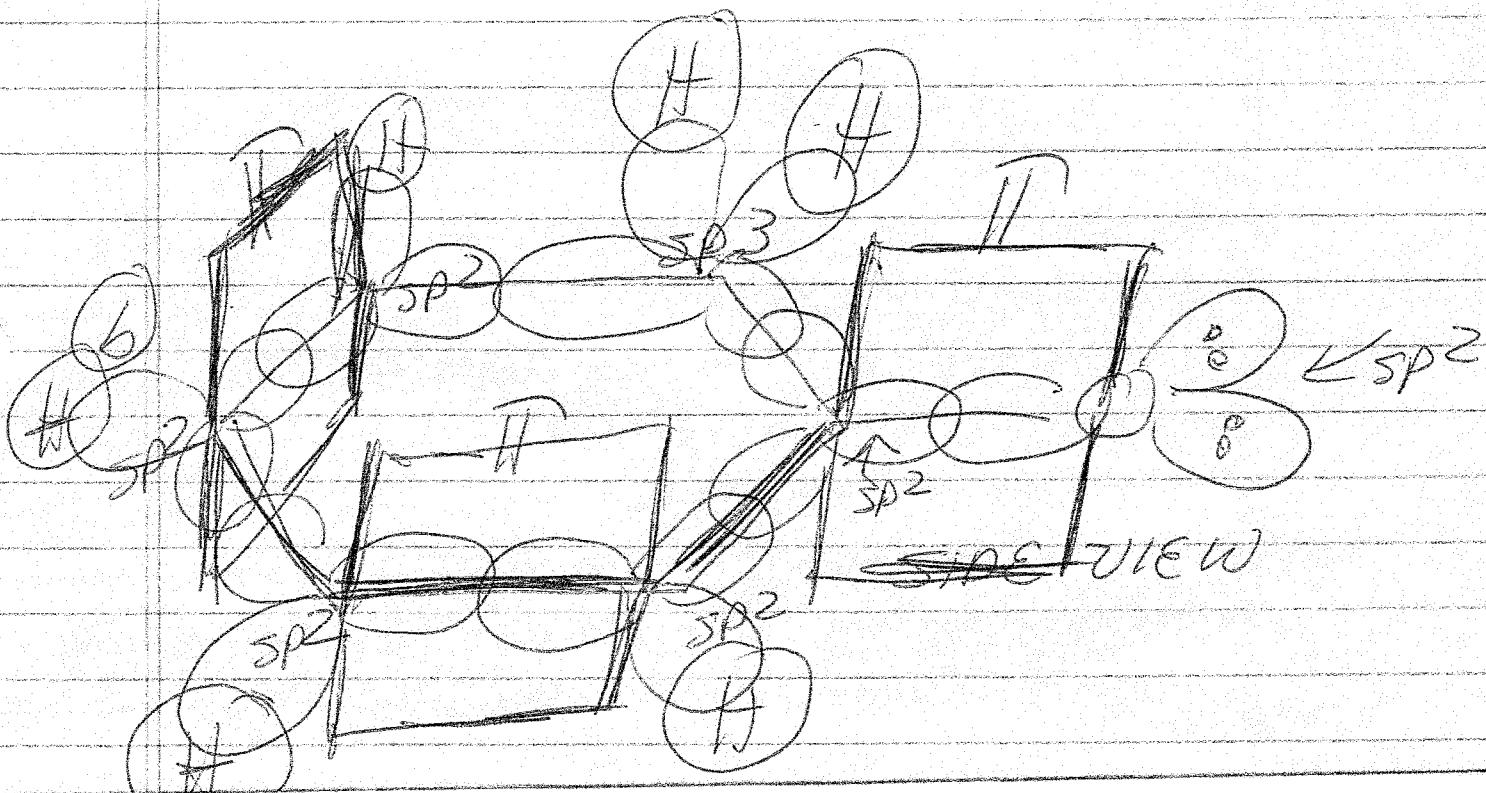
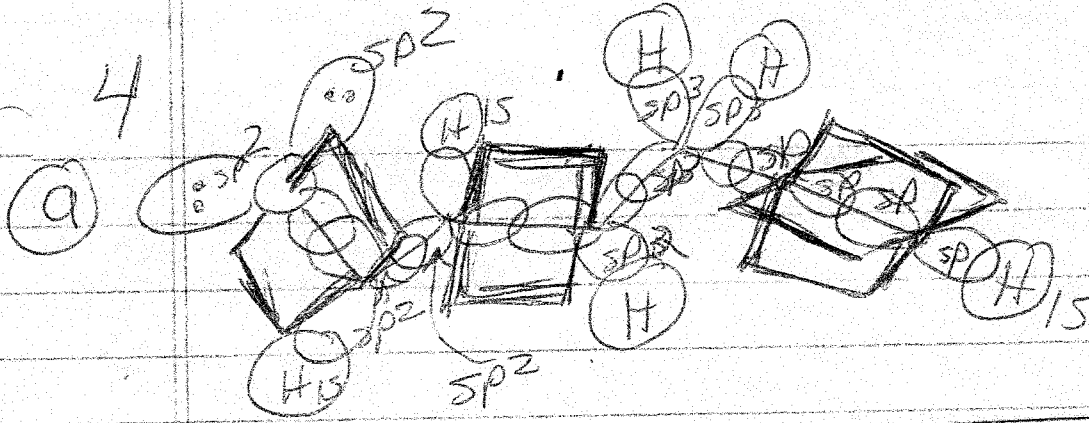
geometric isomers

b.



b.





(a) & (b) Both are orbitally same

