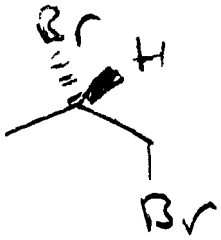
Quiz 8 Chem 231-03 Your name_____

10/27/09 Student ID#_____

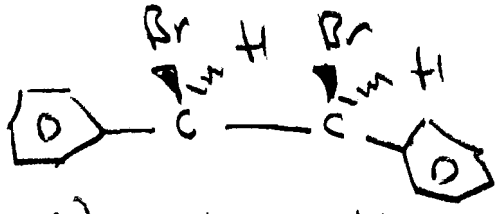
1. Which products would you obtain if you brominated propene? Consider the number of chiral centers present in the products and provide a complete name for each product! (4 pts)

(R) – 1,2 – dibromo – propane



(S) – 1,2 – dibromo – propane

2. State the systematic name and structural formula for the product we prepared last time. Don't forget about the wedges! (4 pts)

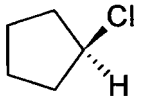


(R,S) – 1,2 – dibromo – 1,2 – diphenylethane

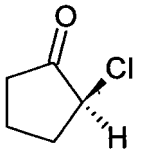
or: meso – – –

3. Indicate any correct statements: a) "I could have used pyridine instead of pyridinium perbromide to accomplish last week's bromination" b) "I could have prepared the same product as last week using cis-stilbene instead of trans-stilbene" c) "The bromination I carried out was an *anti* addition", d) "I could have prepared the same product as last week using 1,1-diphenylethene instead of trans-stilbene" (4 pts)

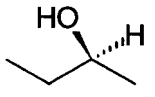
4. For each compound below, decide whether it is an R enantiomer, an S enantiomer, or this concenpt doesn't apply (N/A) 3 pts



1 N/A



2 S



3 S