Priorities: 1. Heteroatom.
2. C-with-heteroatom.
3. C > CH > CH2 > CH3.
4. Proceed down chain until point of difference.

Organic Chemistry I Test 2 Extra Stereochemistry Practice Problems Page 1: Designate R/S Page 2: Chiral or Achiral? Page 3: Same, Enantiomer, or Diastereomer?

## A. Designate the R/S configuration for any chiral centers in the following molecules.



The upper-left S is harder than the others.





## C. Mark the relationships between the following structures as either "same", "enantiomers", or "diastereomers".

