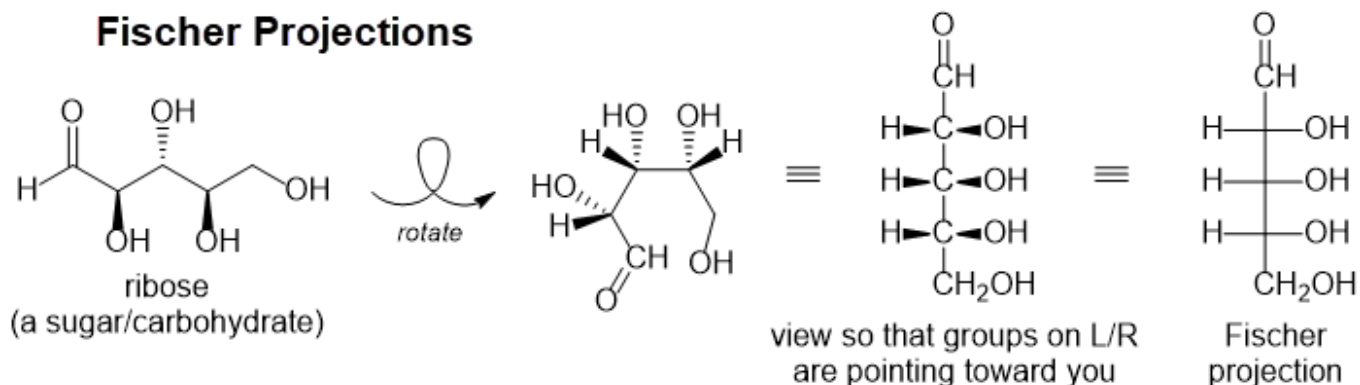


Organic Chemistry I, CHM 3140  
 Dr. Laurie S. Starkey, Cal Poly Pomona  
 Chapter 5 Stereochemistry, Part 2 – [Practice Problems](#)

For clicker question voting, go to:  
<https://pollev.com/lauriestarke263> or  
 text LAURIESTARKE263 to 37607

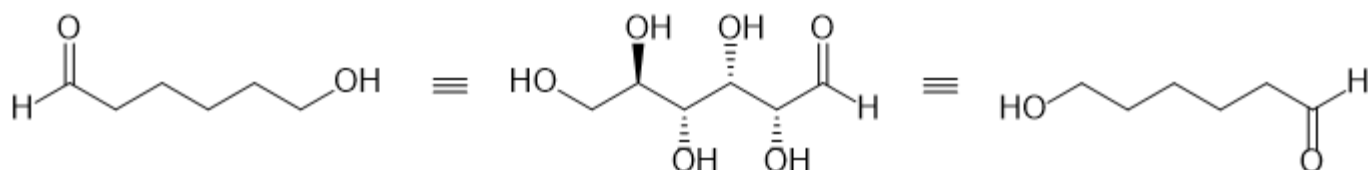
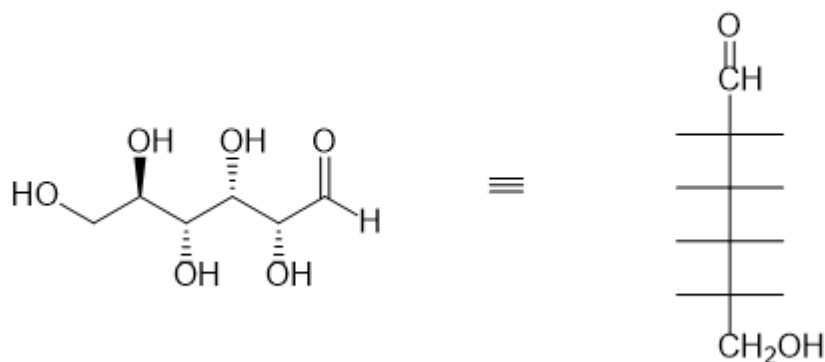


### Fischer Projections



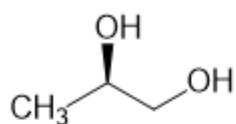
1

Draw the given compound as a Fischer projection, and on the provided skeletons:

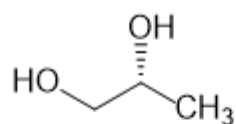


2

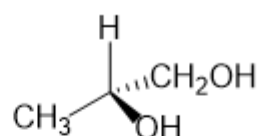
II. Revisited: assigning *R/S* configuration if group #4 is *in the plane* (5.3).



#4 is dashed  
so 1-2-3

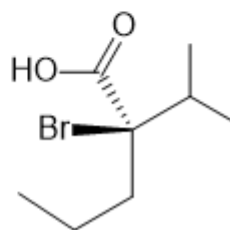
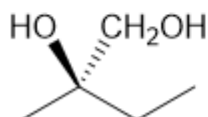


#4 is wedged  
so 3-2-1



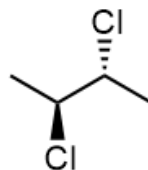
#4 is planar  
so change POV!

Group work: assign configuration for the following compounds. Show your work.



3

Is the following molecule optically active?  
Does it have an enantiomer?

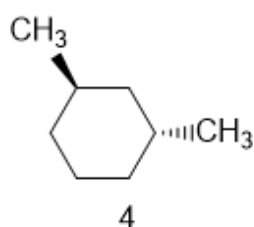
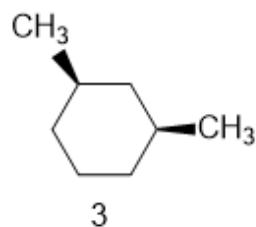
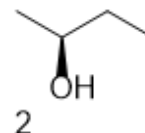
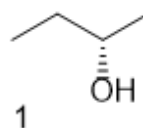


4

What is the relationship of the following pairs of compounds?

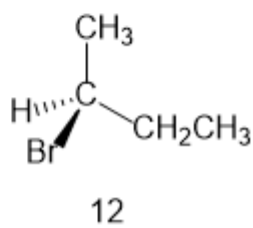
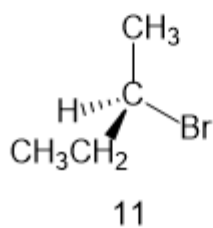
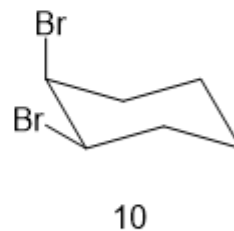
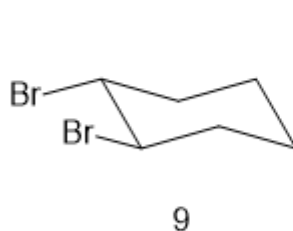
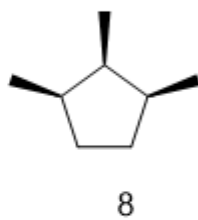
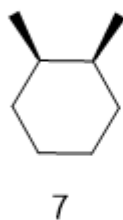
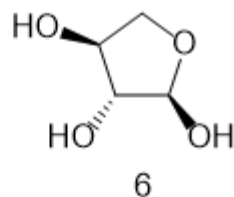
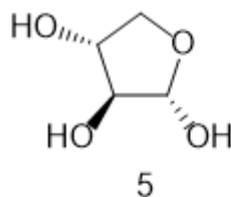
**try SkillBuilder 5.6**

- A) constitutional (structural) isomers
- B) enantiomers
- C) diastereomers
- D) the same compound
- E) unrelated



5 What is the relationship of the following pairs of compounds?

- A) constitutional (structural) isomers
- B) enantiomers
- C) diastereomers
- D) the same compound
- E) unrelated



6

