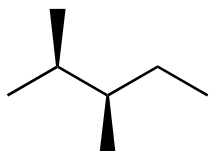


Quiz 3

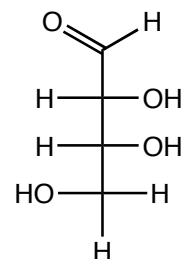
1. a. (4 pts each) Determine whether the following molecules contain chiral centers and put a star (*) next to any chiral centers you find.

b. (4 pts. each) Circle the molecules that are chiral.

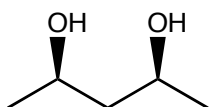
i.



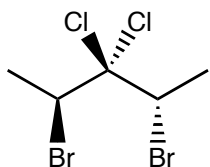
iv.



ii.

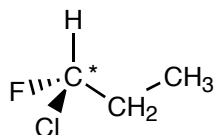


iii.

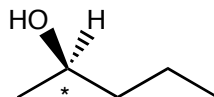


2. (10 pts. each) Determine the configuration of the chiral centers (marked with a *) on the molecules drawn below.

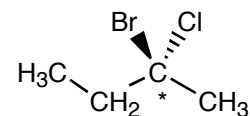
a.



b.



c.



3. (10 pts.) Draw *R*-2-chlorobutane.