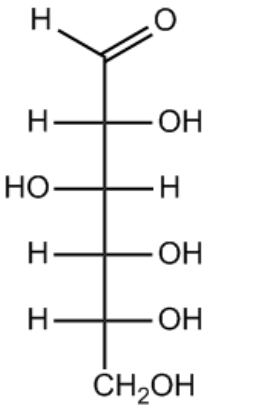
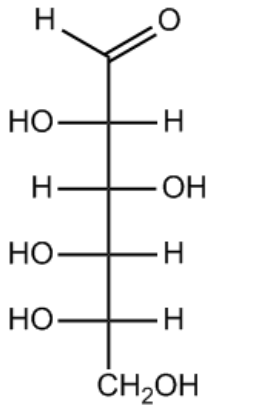
CONCEPT: MONOSACCHARIDES — D and L-ISOMERISM

All monosaccharides come in dextrorotary (D) and levorotary (L) forms. These are ***enantiomers*** of each other.

- Monosaccharide stereochemistry is determined by the "*penultimate carbon*" or _____ chiral carbon
- **NOTE:** This carbon (C-5) will be used as a _____ later in this chapter
  - □ D = _____ - configuration (-OH pointing RIGHT)
  - □ L = _____ - configuration (-OH pointing LEFT)



_____ Glucose



_____ Glucose

PRACTICE: Provide the generic name, including stereochemistry, for the following monosaccharides: