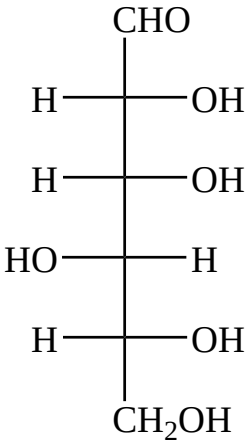
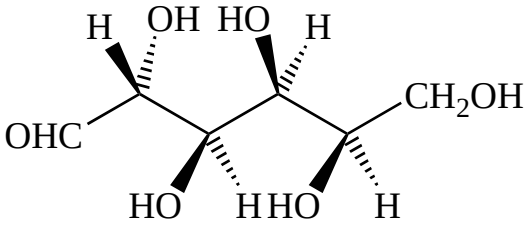
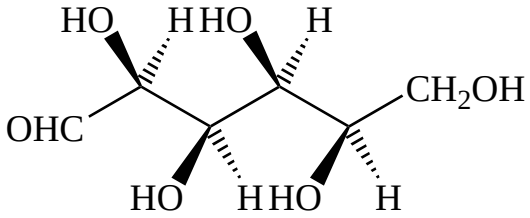
Ex 29A - Fischer

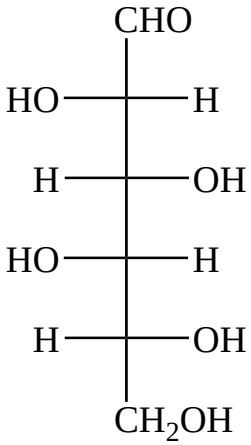
Question One
Convert the following molecule shown as a Fischer projection into its staggered conformation.



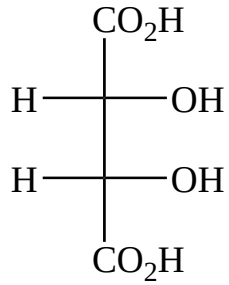


Question Two
Convert the following molecule into its Fischer projection.

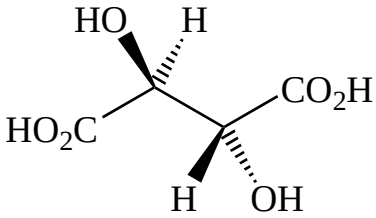




Question Three
Draw the molecule represented by this Fischer projection showing its proper shape.



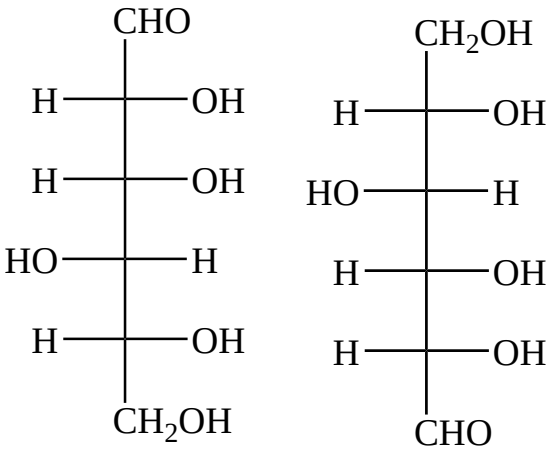
meso-tartaric acid



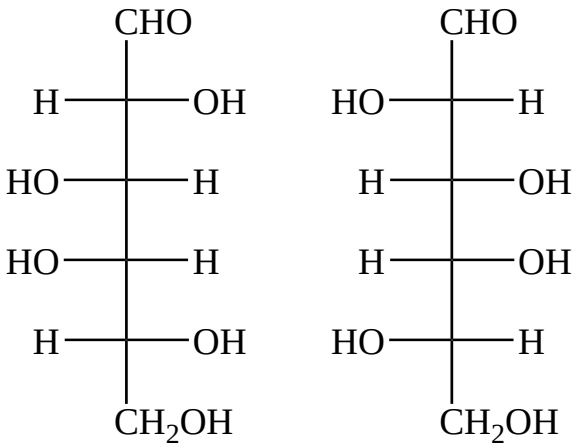
Question Four

What is the relationship of the following pairs of molecules shown as their Fischer projections: are they enantiomers, diastereomers or the same molecule?

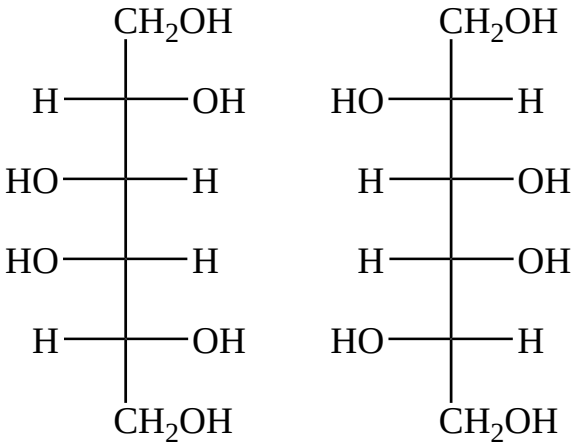
Enantiomers



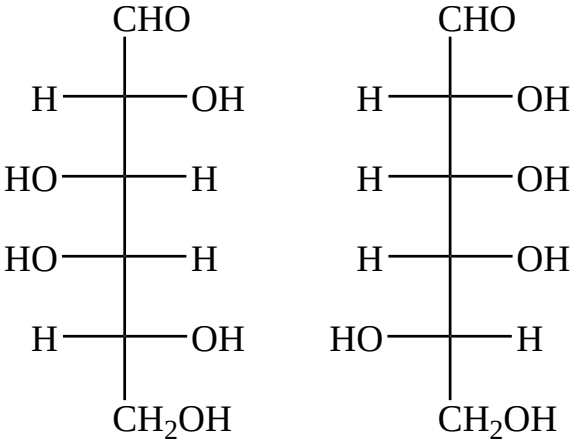
Enantiomers



Same (meso)



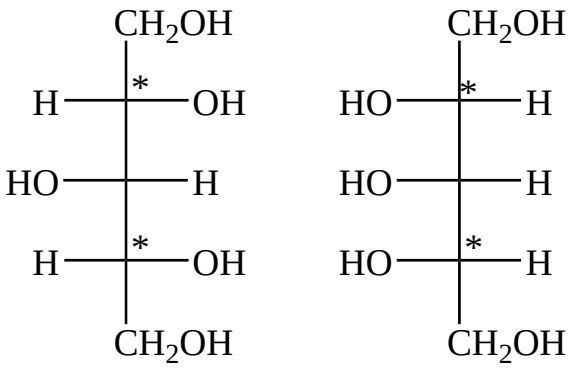
Diastereomers



Question Five

Place an asterisk by the stereogenic carbons of the following. Which of these molecules are chiral? What is their stereochemical relationship?

Both are achiral.



Diastereomers