

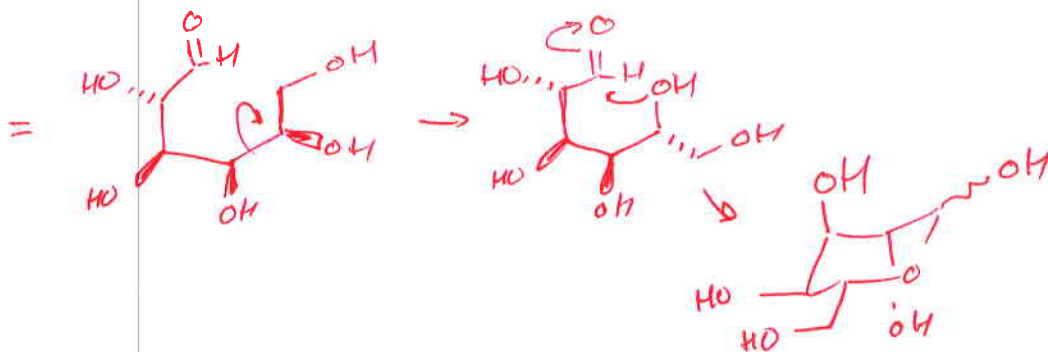
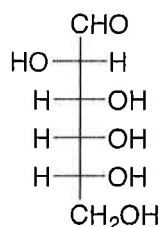
Quiz 4a

Name: *Key*

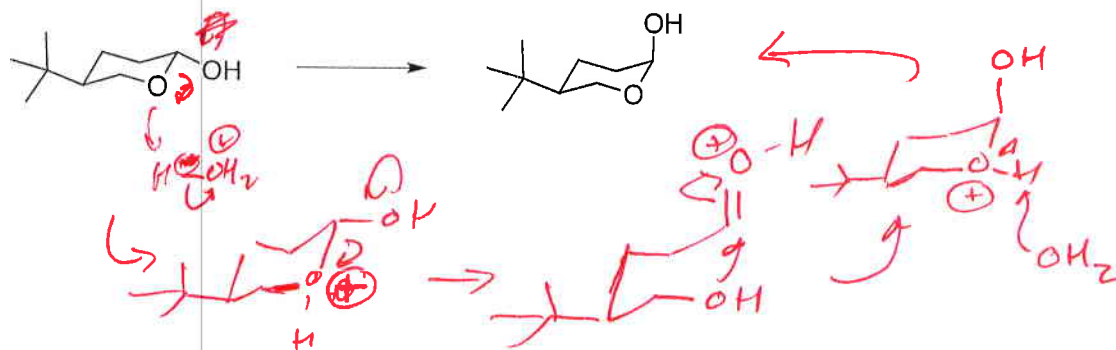
Recitation Instructor

You have 30 minutes for the following quiz. It start 5 minutes into your recitation period.

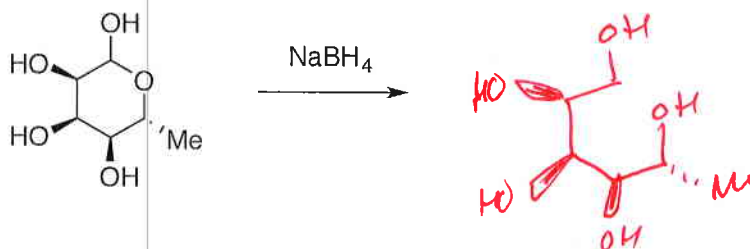
1. Draw the following sugar in a 3D chair conformation (6-memebered ring), making sure to show the appropriate enantiomer. (8 points)



2. Draw a mechanism that shows the following interconversion. You can use a proton source (H_3O^+) to assist in your mechanism. (8 points)



2. What is the product of the following reaction. (4 points)



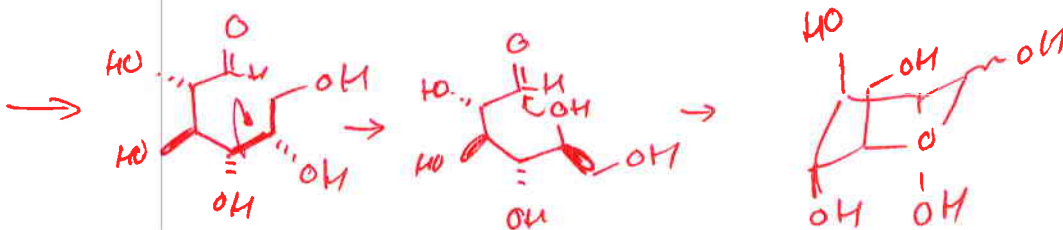
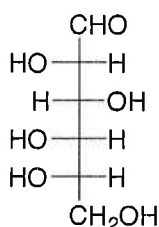
Quiz 4b

Name:

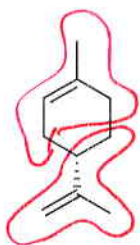
Recitation Instructor

You have 30 minutes for the following quiz. It starts 5 minutes into your recitation period.

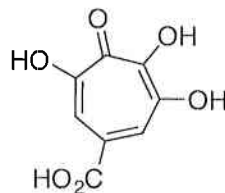
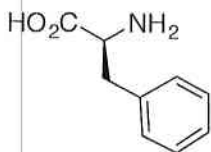
1. Draw the following sugar in a 3D chair conformation (6-membered ring), making sure to show the appropriate enantiomer. (8 points)



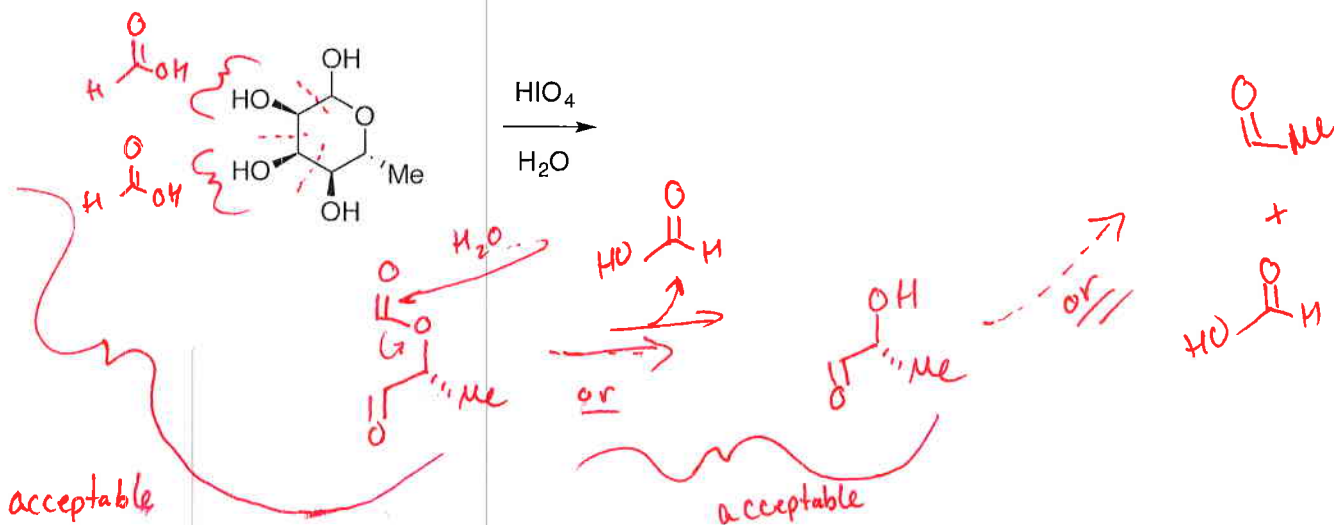
2. Which of the following molecules would you think is most likely a terpene and why?. (6 points)



Comprised of two isoprene units



2. What are the product(s) of the following reaction. (4 points)



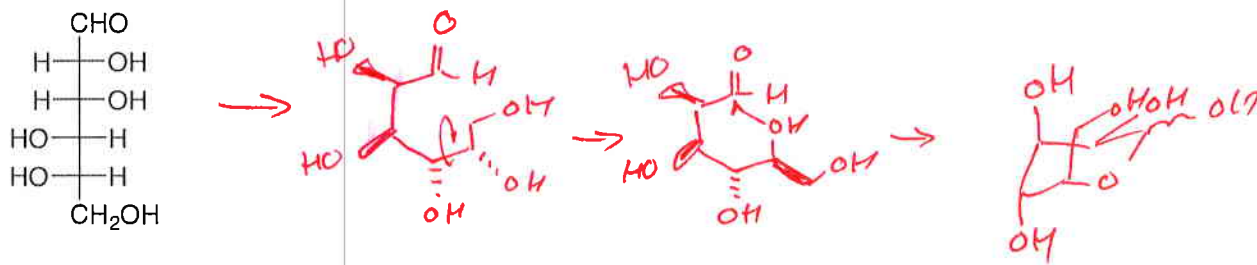
Quiz 4c

Name: *Ry*

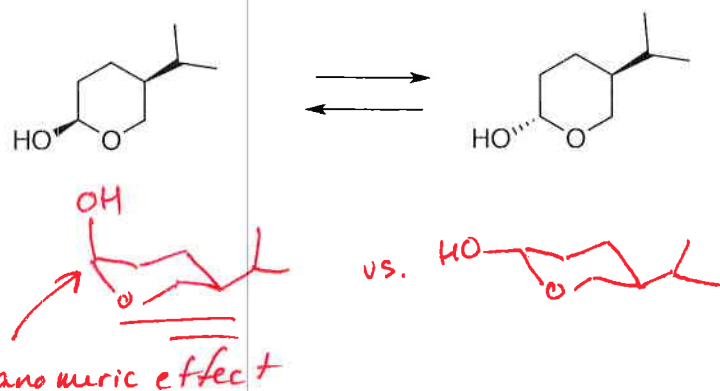
Recitation Instructor

You have 30 minutes for the following quiz. It starts 5 minutes into your recitation period.

1. Draw the following sugar in a 3D chair conformation (6-membered ring), making sure to show the appropriate enantiomer. (8 points)



2. Which way would you expect the following equilibrium to lie, and why? (6 points)



3. What is the stereochemistry at the carbon circled (R or S)? Based on this, is this sugar a d or l sugar? (6 points)

