

(23) **Today**

Chap 7: Carbohydrates

(25) **Second Class from Today**

Chap 7: Glycolysis

Next Class (24)

Chap 7: Carbohydrates

Chap 13: Glycolysis?

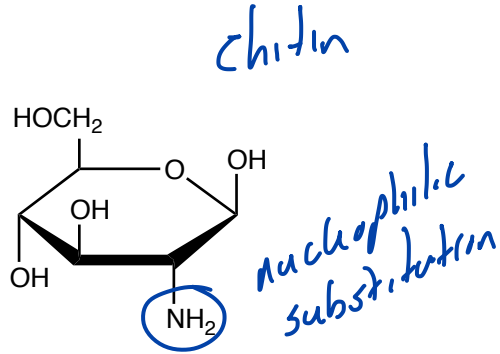
Third Class from Today (26)

Chap 13: Glycolysis

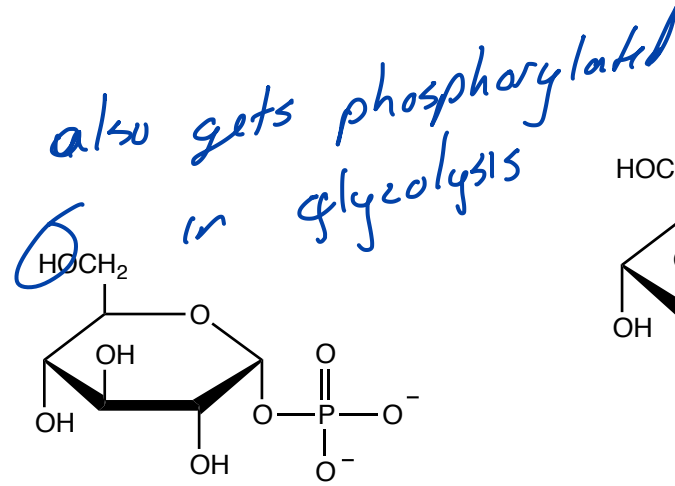
Citric Acid Cycle

Monosaccharides: Derivatives

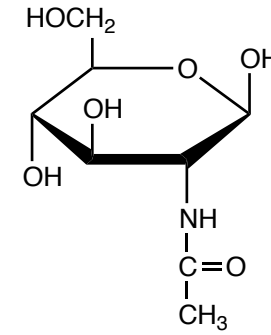
Section 7.1



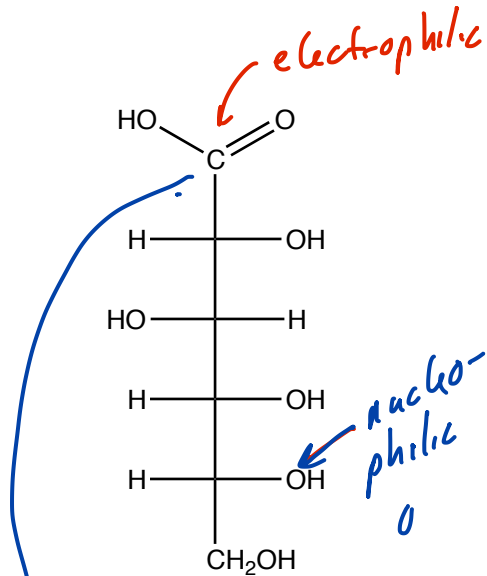
β-D-glucosamine



α-D-glucose-1-phosphate



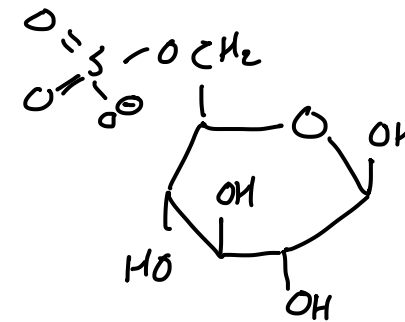
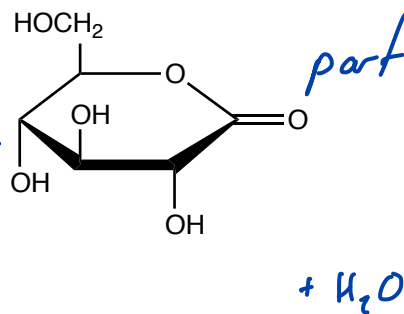
β-D-N-acetylglucosamine




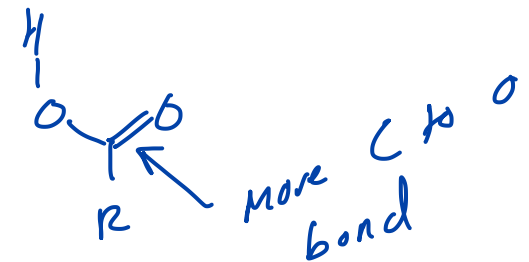
D-gluconic acid

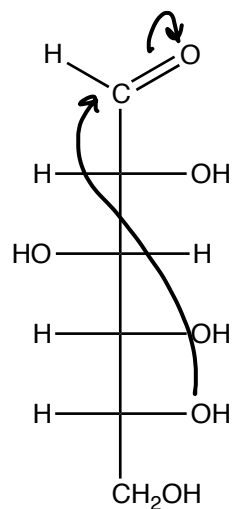
part of the glycolytic pathway

part of the pathway to make ascorbic acid

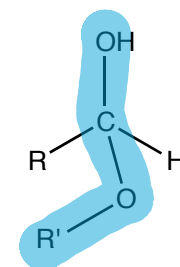
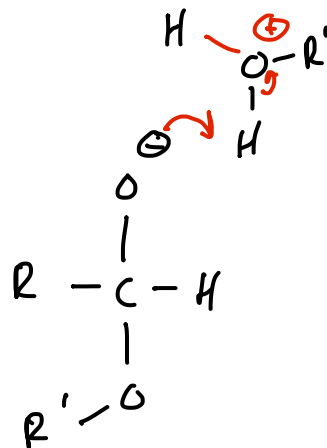
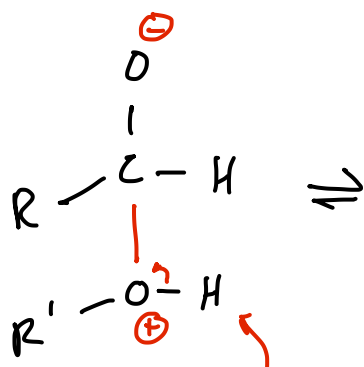
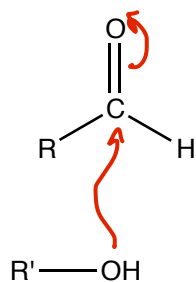
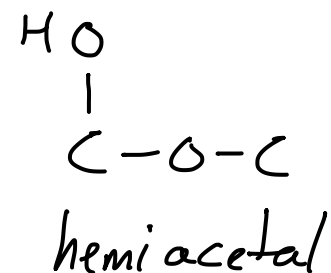
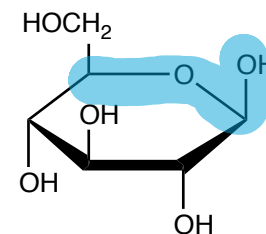


this was  *an aldehyde* →





same steps as below

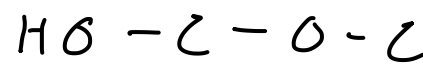
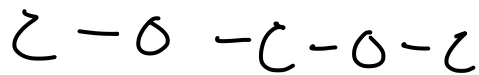
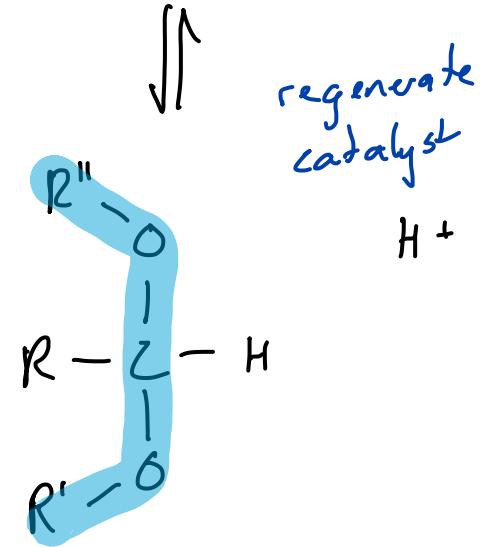
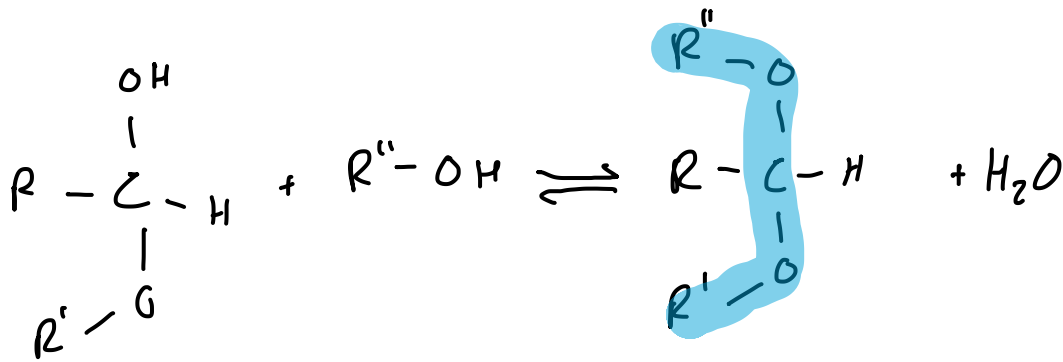
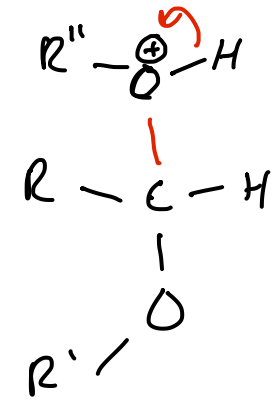
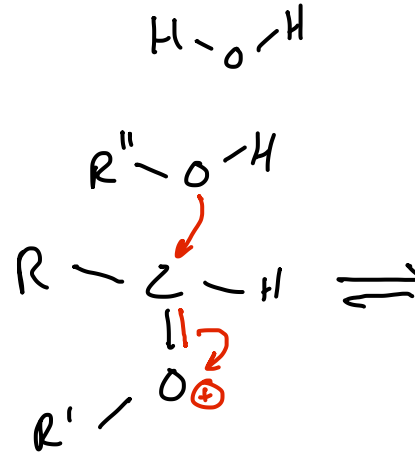
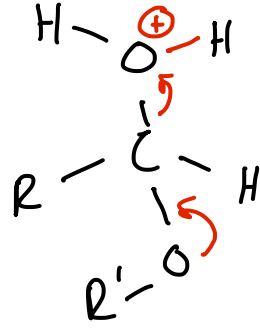
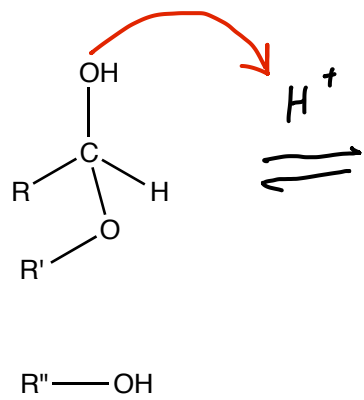


R'-O-H
↑
any weak base
will do

nothing is lost in
this reaction

Monosaccharides and Disaccharides: Acetals

Section 7.1



two ethers on the same C

acetal water released
only reversible in the presence of H₂O

an ether + and alcohol on
the same C nothing released
hemiacetal always reversible

