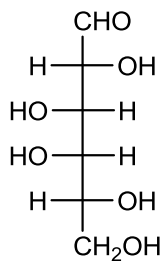
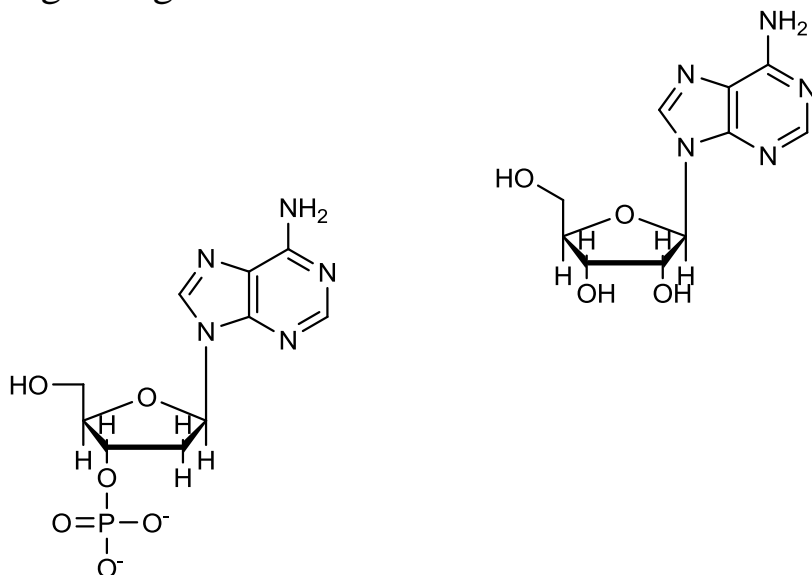


## CHE 242 Unit VII Practice

- 1 Draw and name the products of the following reactions:  
n-propanol plus  $\text{K}_2\text{Cr}_2\text{O}_7 \rightarrow$   
n-propanol plus PCC  $\rightarrow$
- 2 Draw propanoyl chloride  
show the mechanism of its reaction with methyl-amine.
- 3 What are the basic differences between nucleosides and nucleotides?
- 4 For the sugar below: assign R/S designations to the stereo centers, then draw the alpha Haworth ring structure.



- 5 Determine whether each of the following 2 structures is a DNA or RNA, nucleoside or nucleotide. Number the carbons atoms in the sugar ring.



- 6 Why is a C-H bond alpha to a carbonyl group acidic? Resonance structures help.
- 7 Draw the aldol condensation product of 2 moles of acetone itself.
- 8 Draw the product of the Claisen condensation of 2 moles of ethyl acetate.