Week 6 Worksheet

Chapter 21

1. During the metabolism of glucose, glyceraldehyde 3-phosphate is converted to dihydroxyacetone phosphate by a process that involves two keto-enol tautomerization. Draw a stepwise mechanism for this reaction in the presence of acid. (6th Ed., #21.3)

2. Draw the product formed when each starting material is treated with LDA in THF solution at -78 °C.
   a. 
   b. 
c.
\[ \text{Structure Image} \]

d.
\[ \text{Structure Image} \]