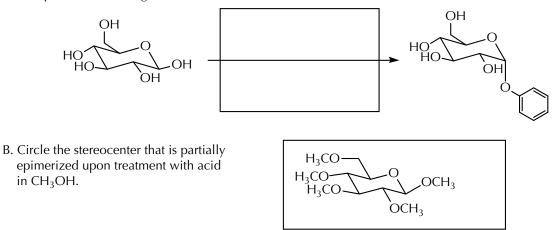
16.31

A. Complete the following.



C. As part of the synthesis of the antibiotic aplasmomycin, the sugar mannose (A) was converted to ketal D using cat. TsOH and acetone, $(CH_3)_2C=O$. The reaction proceeds through two intermediates, B and C. In the boxes below, provide a stepwise, curved arrow mechanism for the transformation of B to C. Use H-B for the acid and B^{Θ} for its conjugate base in your mechanism.

