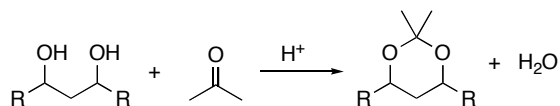
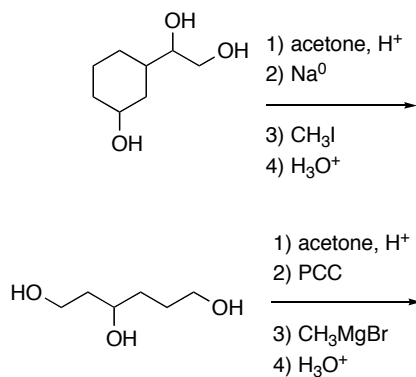


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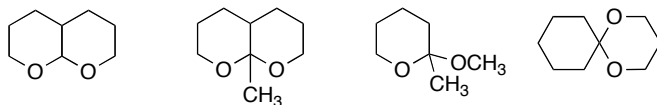
1. One equivalent of acetone with acid catalyst can be used to protect or “tie up” 1,2- or 1,3-diols to make 5- or 6-membered acetal rings, as shown below:



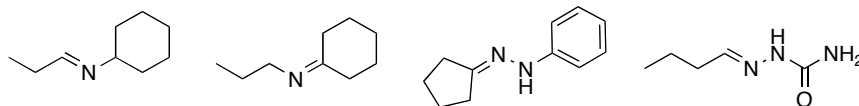
Show the products of each step in the following reactions:



2. Draw products of acidic hydrolysis of the following acetals. Choose one to draw the full mechanism.



3. Draw and **name** the necessary compounds required to produce the following imines from their parent carbonyl compounds. Choose one to draw the full mechanism of its imine formation.



4. Give the IUPAC names for the following compounds. In the mass spectrum of each of these compounds, the base peak comes from the McLafferty rearrangement. Draw the rearrangement and predict the masses of the base peak and the molecular ion peak. Choose one to predict and draw the ¹H-NMR spectrum.

