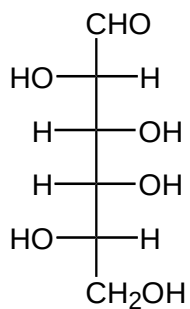


Organic Chemistry c3444y

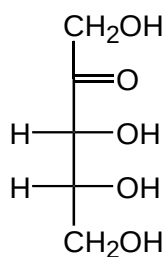
Problem Set 9 - Answer Key

1. a.



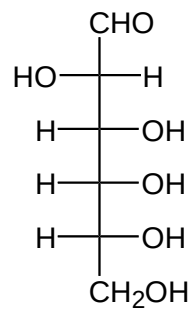
L-aldohexose

b.



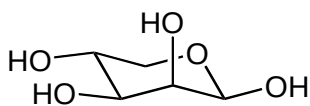
D-ketopentose

c.

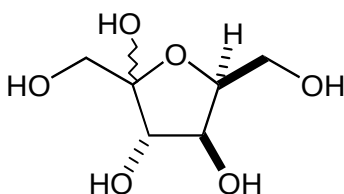


D-aldohexose

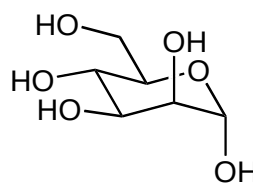
2. a.



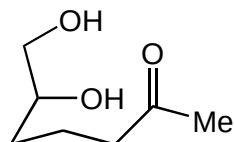
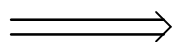
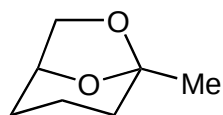
b.



c.

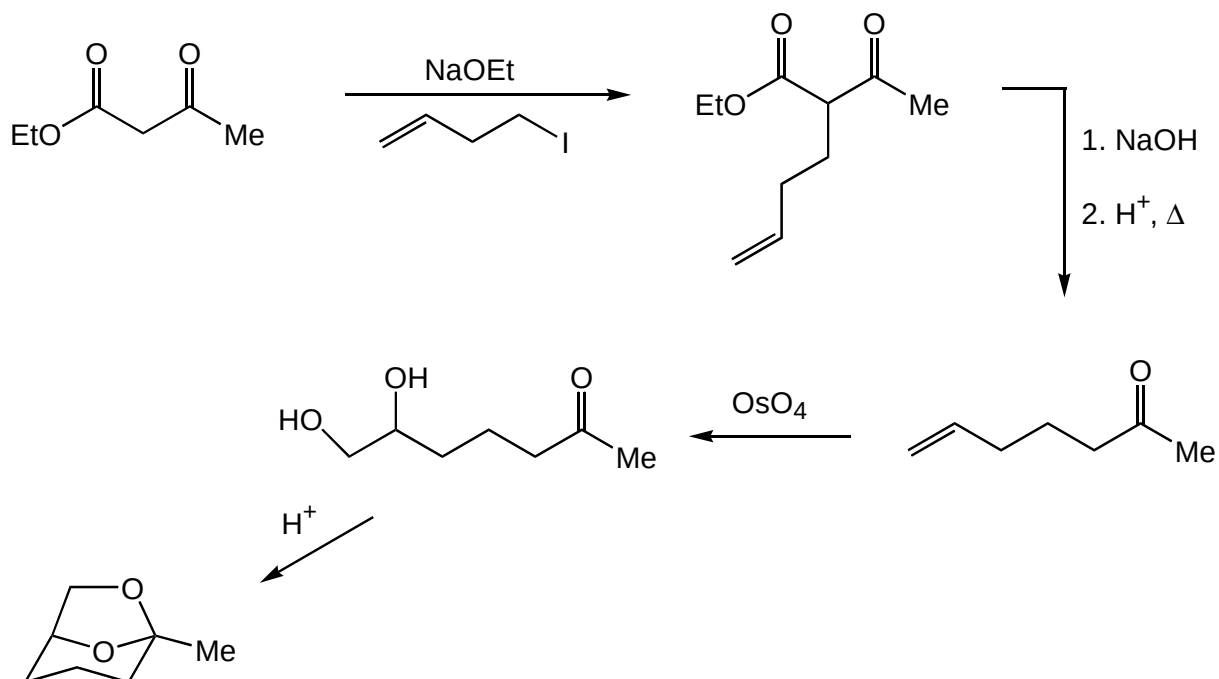


3. Propose a synthesis of the following compound:



The target is an acetal.

Given this starting material, it looks like an acetoacetic ester synthesis:



4.

