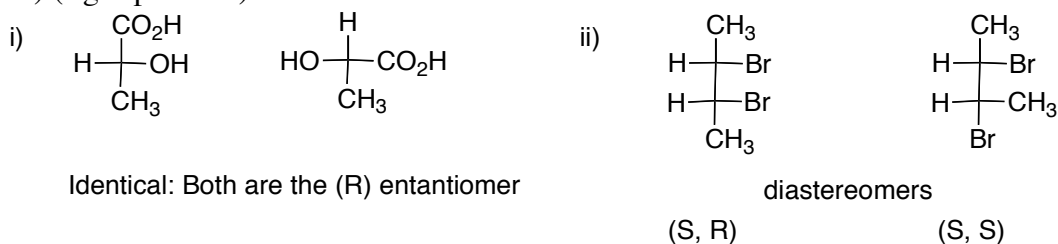


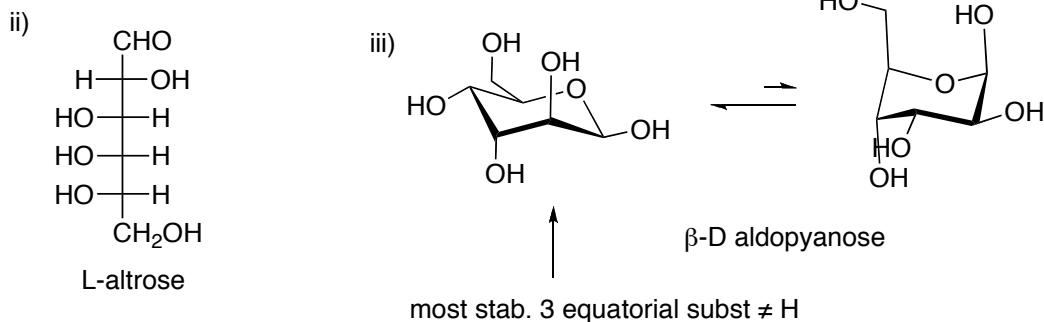
**KJM3200/4200, Spring 08, Suggested solution**

1a) (Ege spm 25.3)

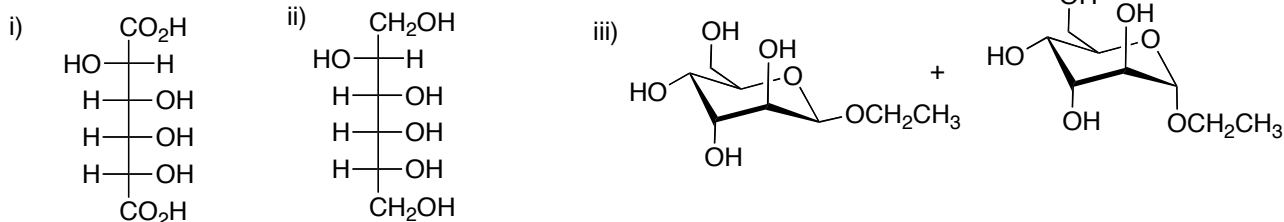


b)

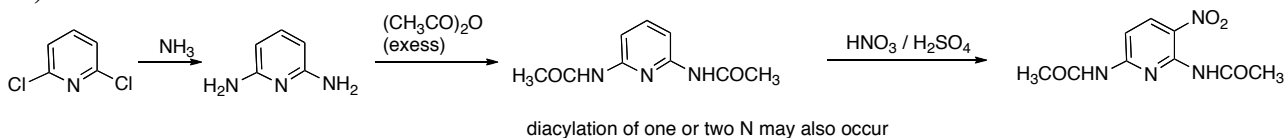
i) Aldose because of the aldehyde function, hexose 6 C atoms, ose carbohydrate



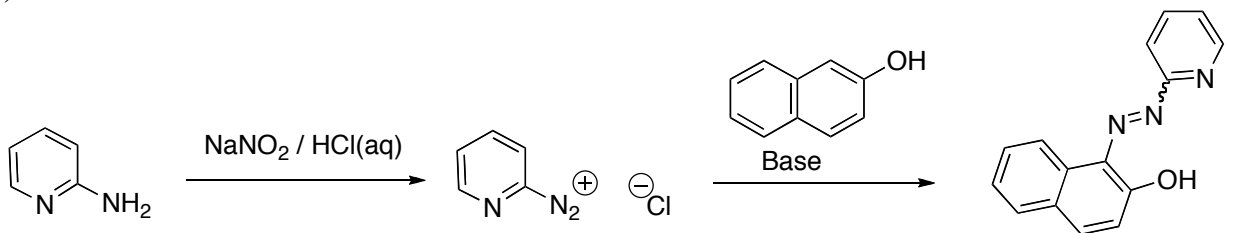
c)



2a)

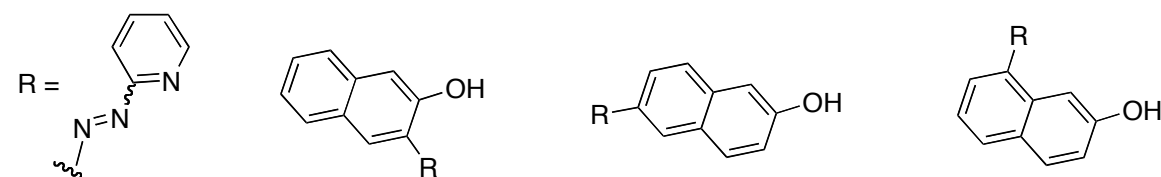


b)

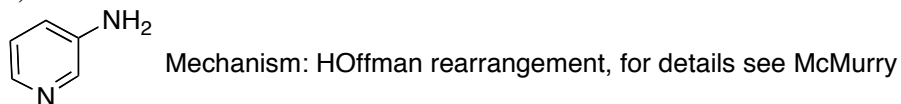


E / Z stereochem. not required

Other logical isomers (OH o/p directing)

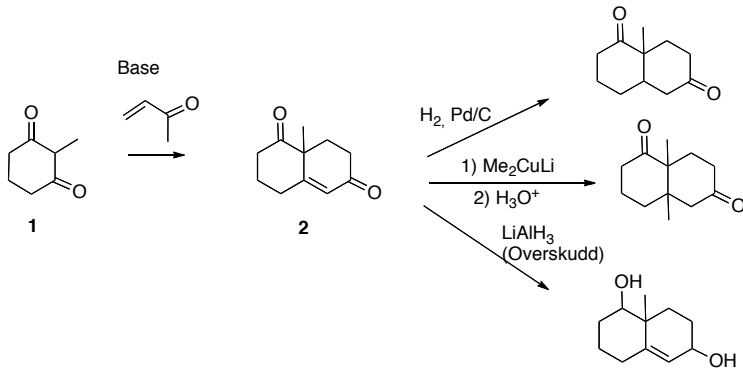


c)

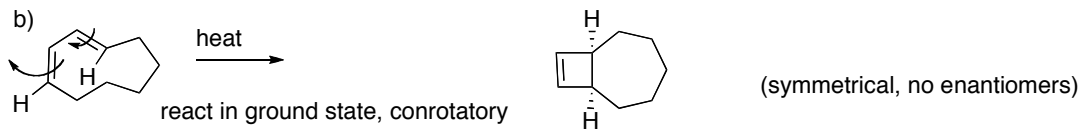
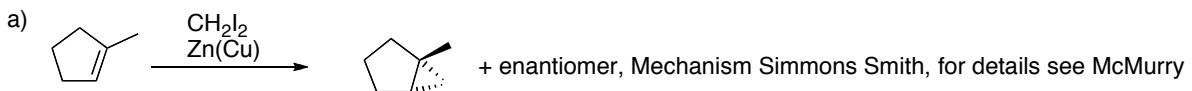


3)

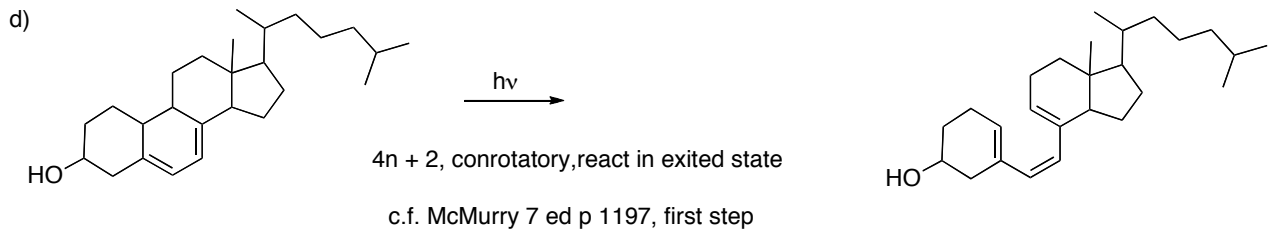
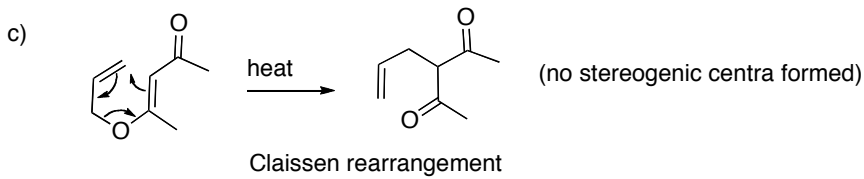
1 – 2: Mechanism: Robinson annulation, for details see McMurry



4)



c.f. ring closing of E;Z diene, McMurry 7 ed, Fig 30.4



5)

