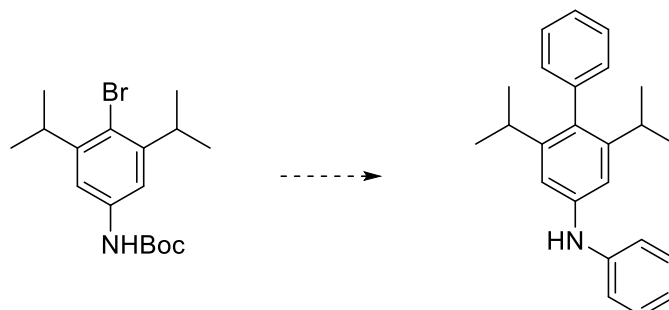


NAME:

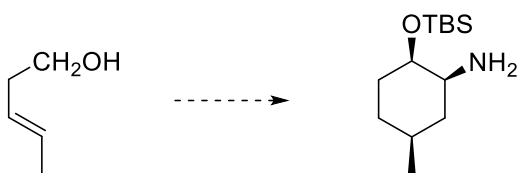
June 8, 2020

Suggest reagents and conditions for the following transformations:

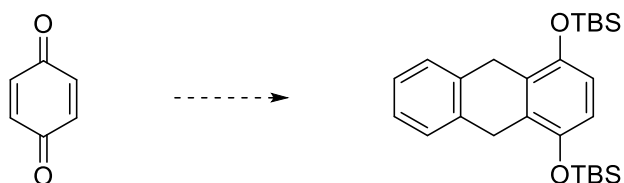
1. (10 pts)



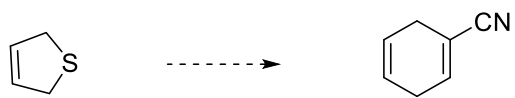
2. (10 pts)



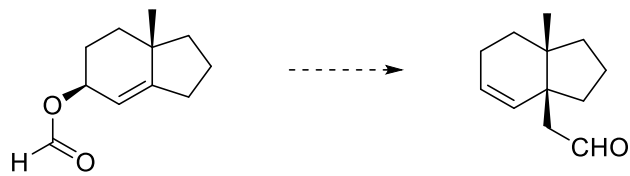
3. (10 pts)



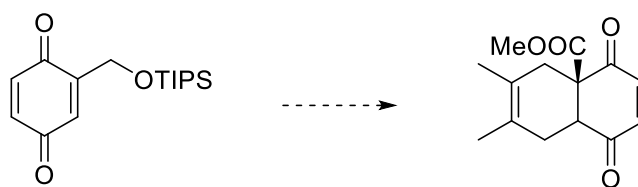
4. (10 pts)



5. (10 pts): no more than 3 steps



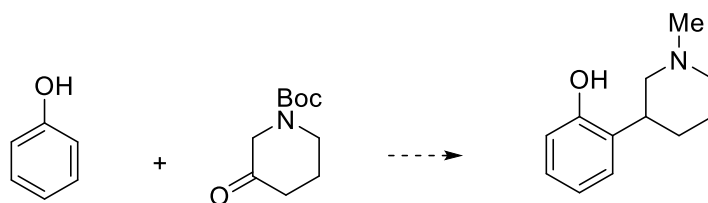
6. (10 pts)



7. (10 pts): no more than 3 steps



8. (20 pts)



9. (10 pts) Draw the structure of the main product (*endo*-diastereomer) of the Diels-Alder reaction of the Danishefsky diene with *p*-benzoquinone: