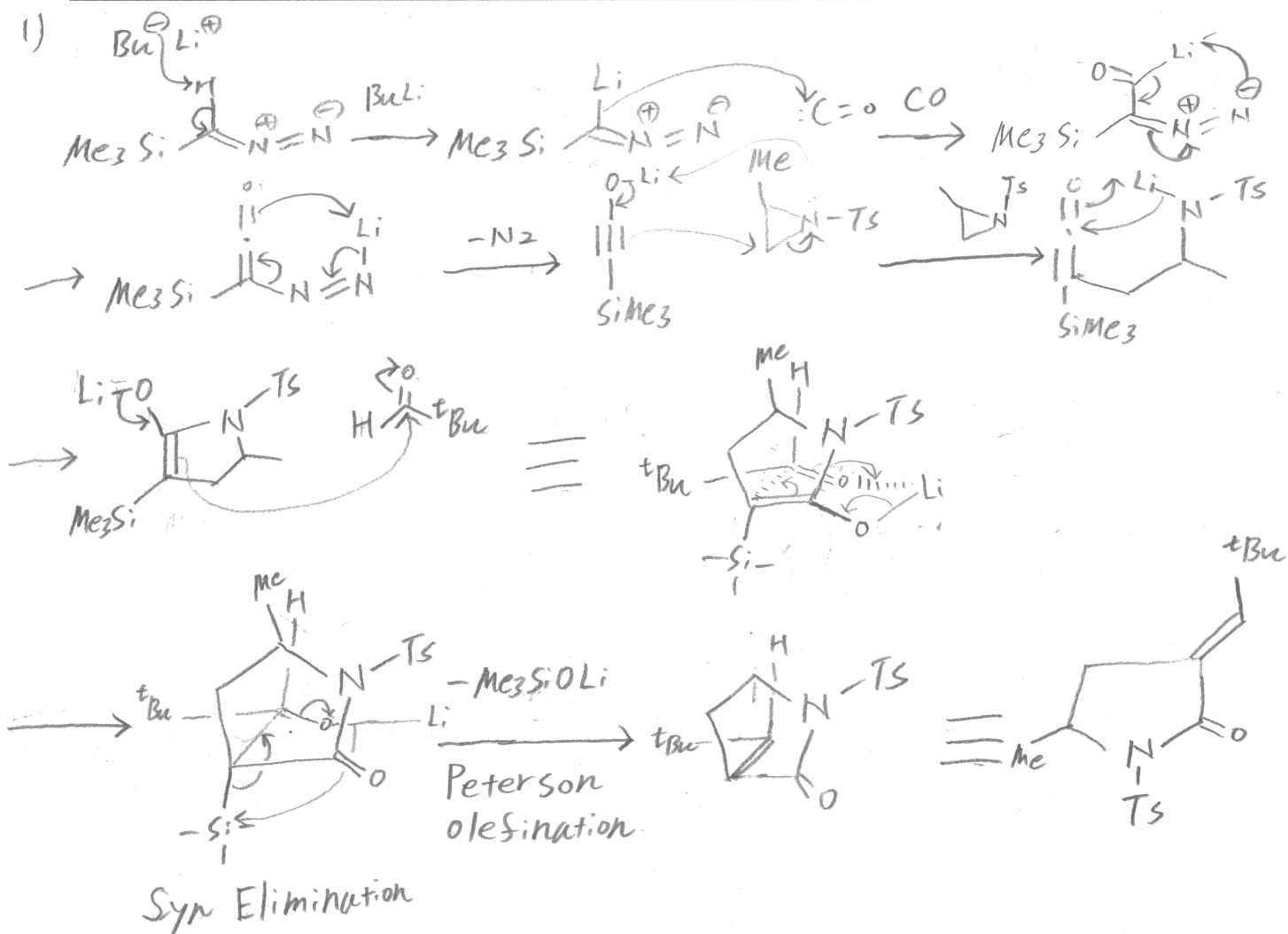
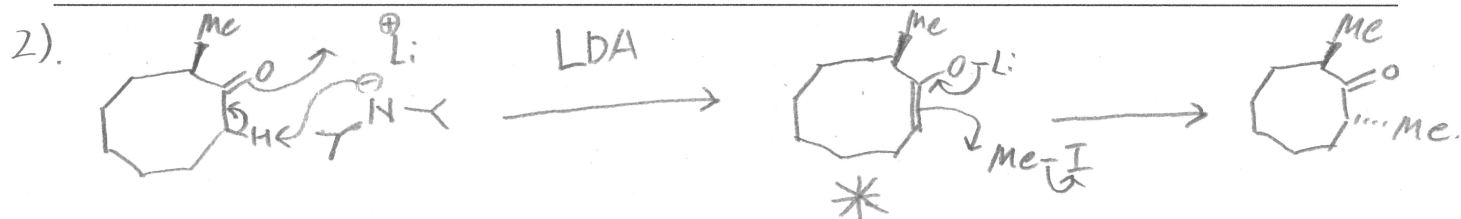
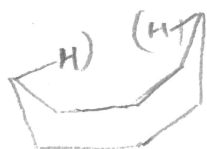


1)

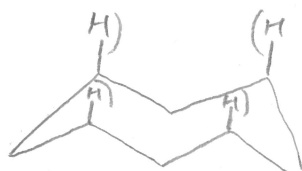




* (I) Cyclooctane Conformation.



Boat-Boat
(disfavored)



Chair-Chair
(disfavored)

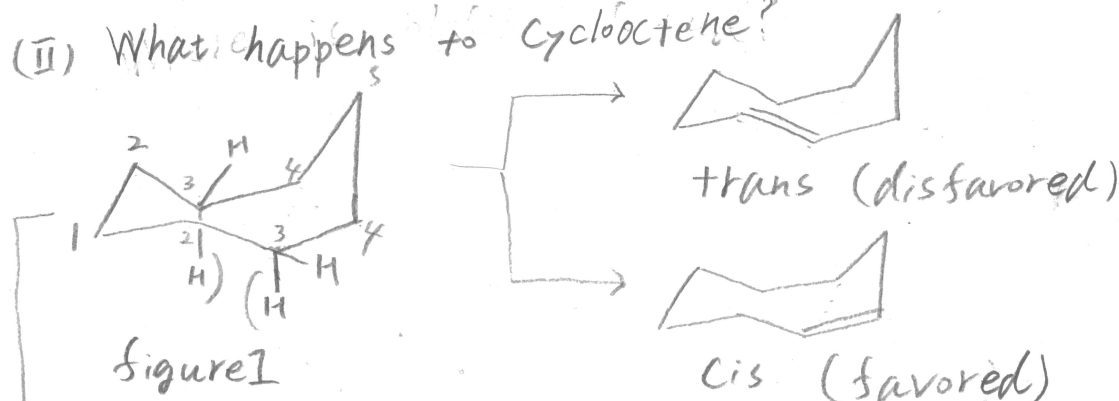


Boat-Chair
(favored)

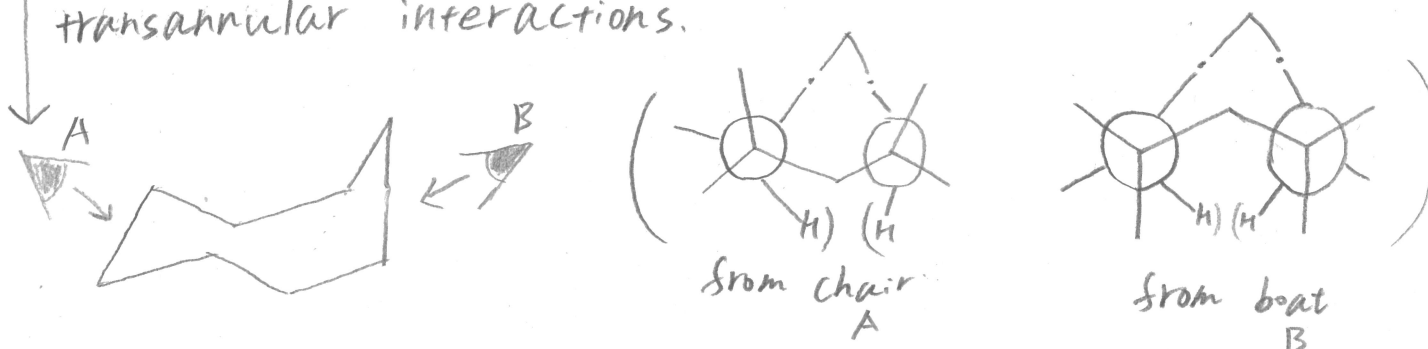
Cyclooctane exists in a boat-chair conformation, which has minimum transannular interactions.

(II) What happens to Cyclooctene?

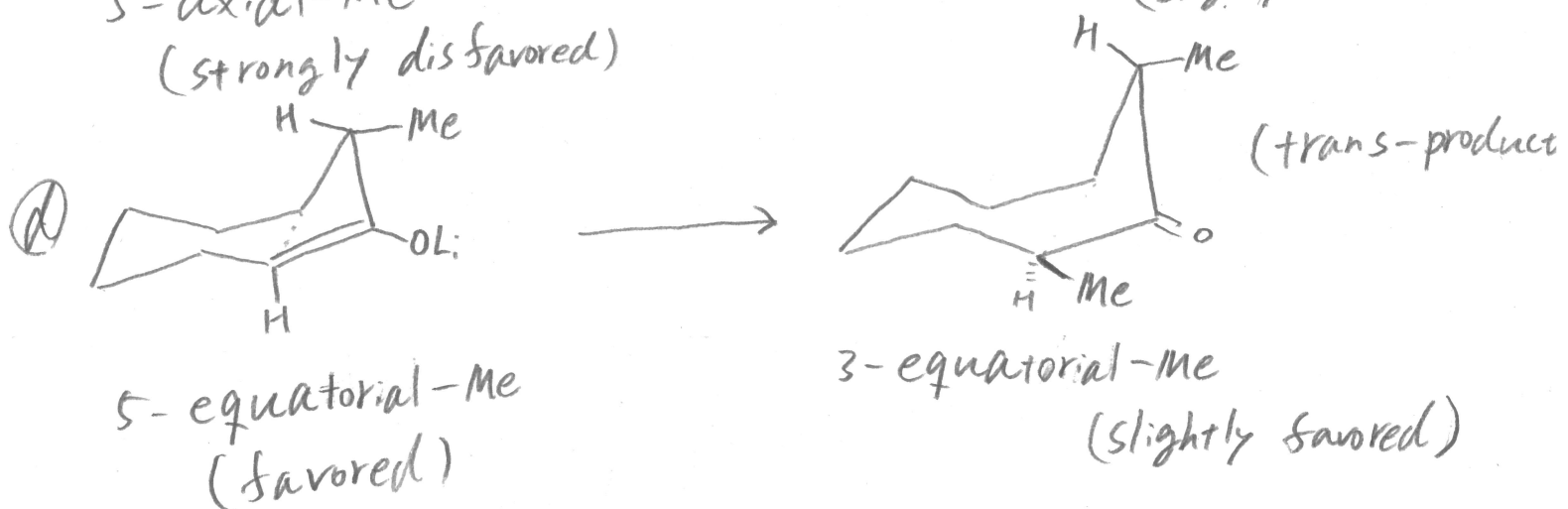
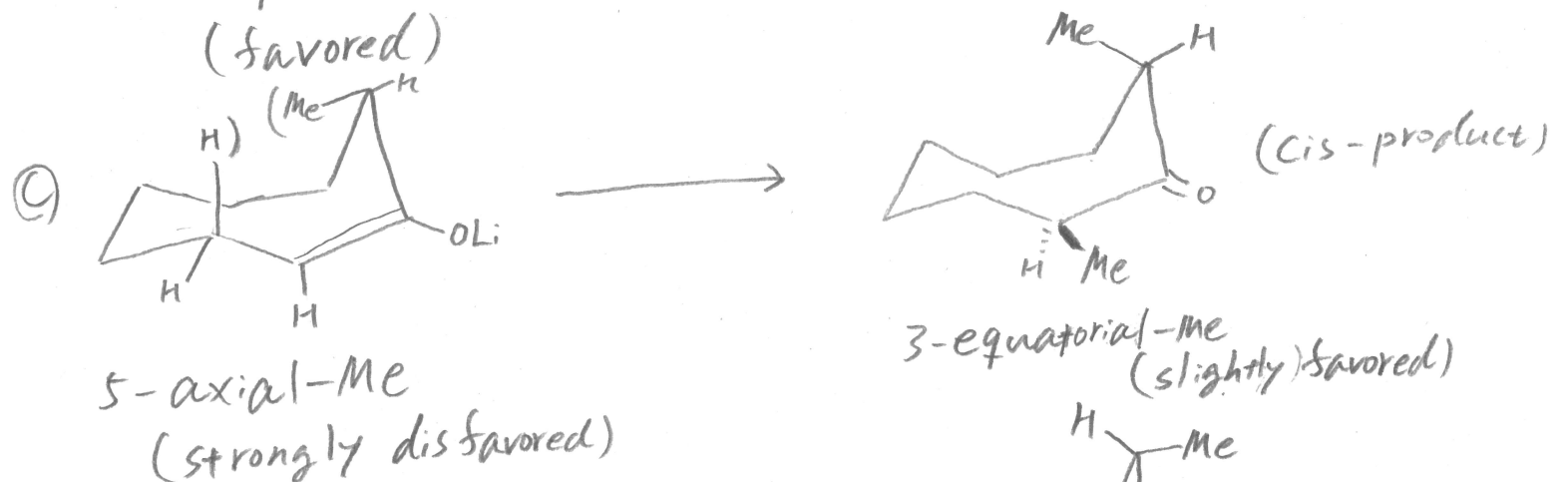
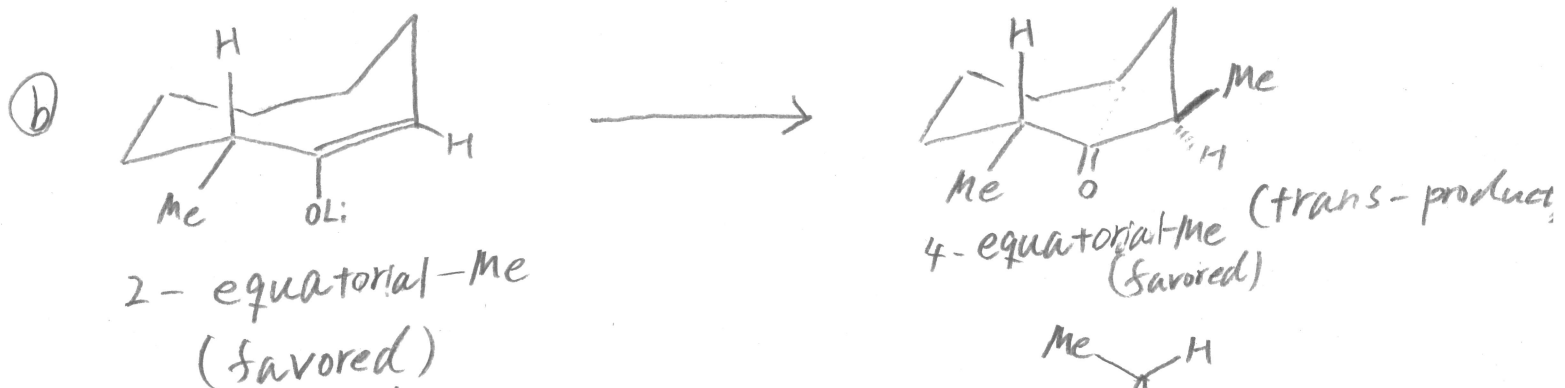
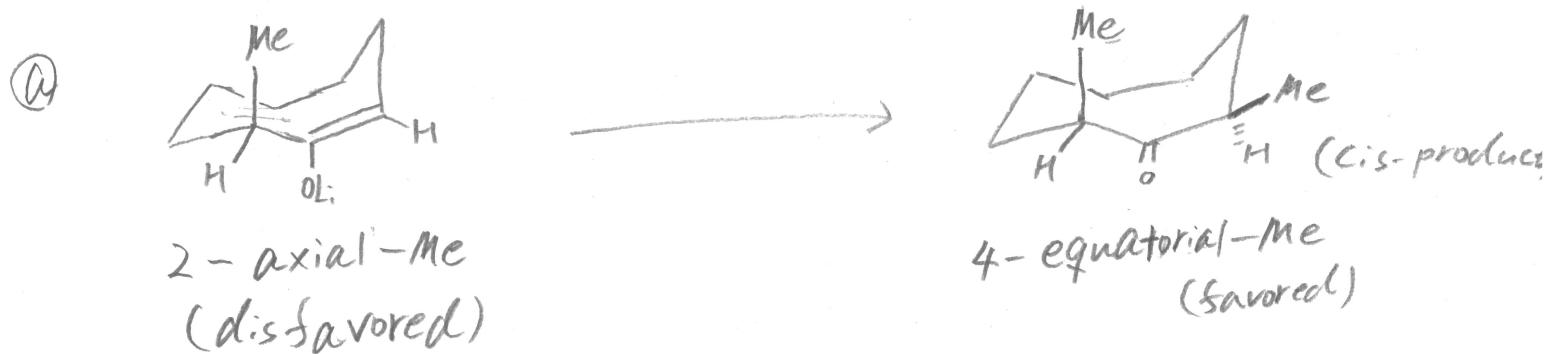
Trans conformation has a large wrap.



Olefine exists between C3 and C4 (Figure 1) to avoid the strongest transannular interactions.



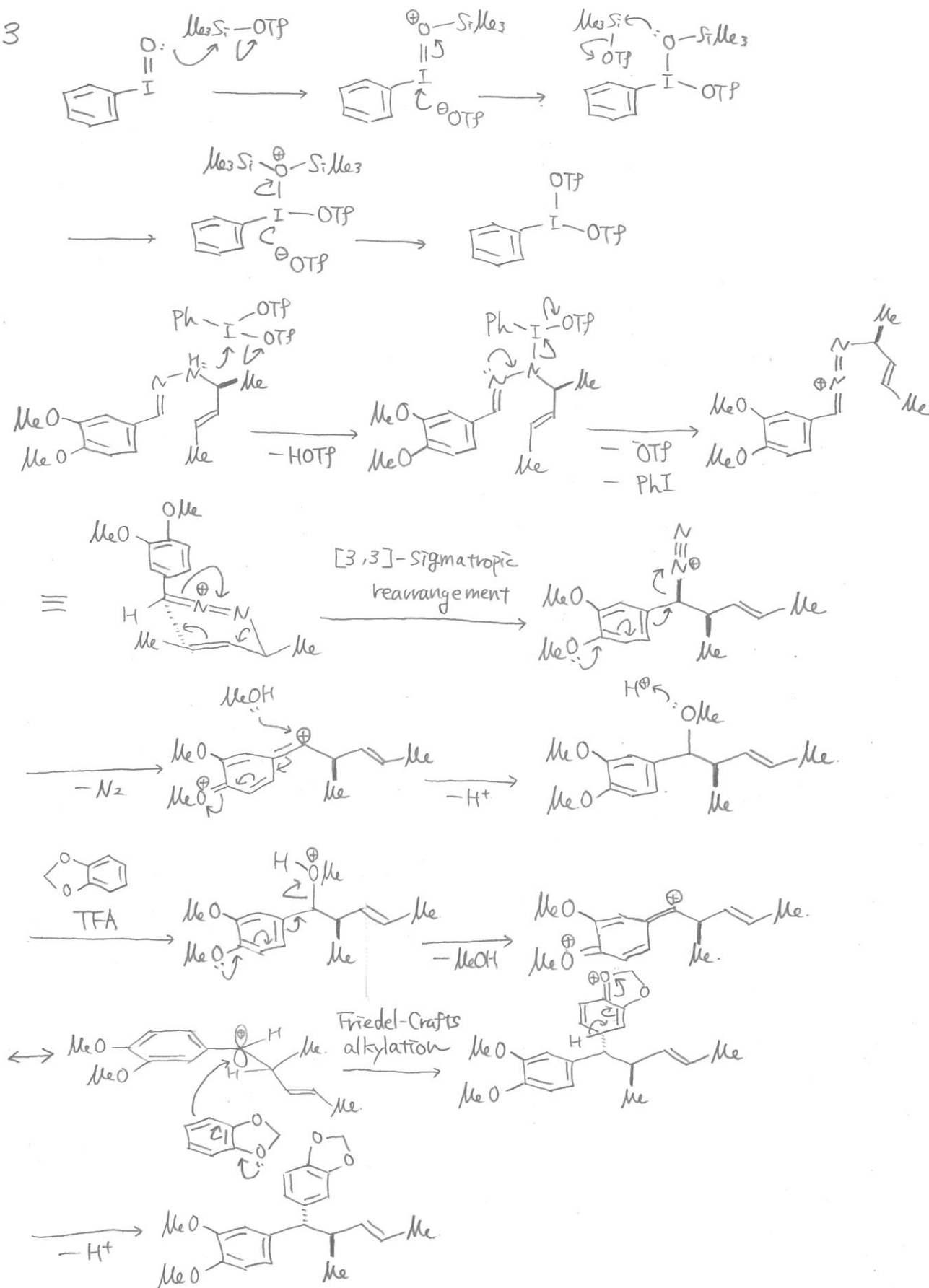
diastereoselectivity



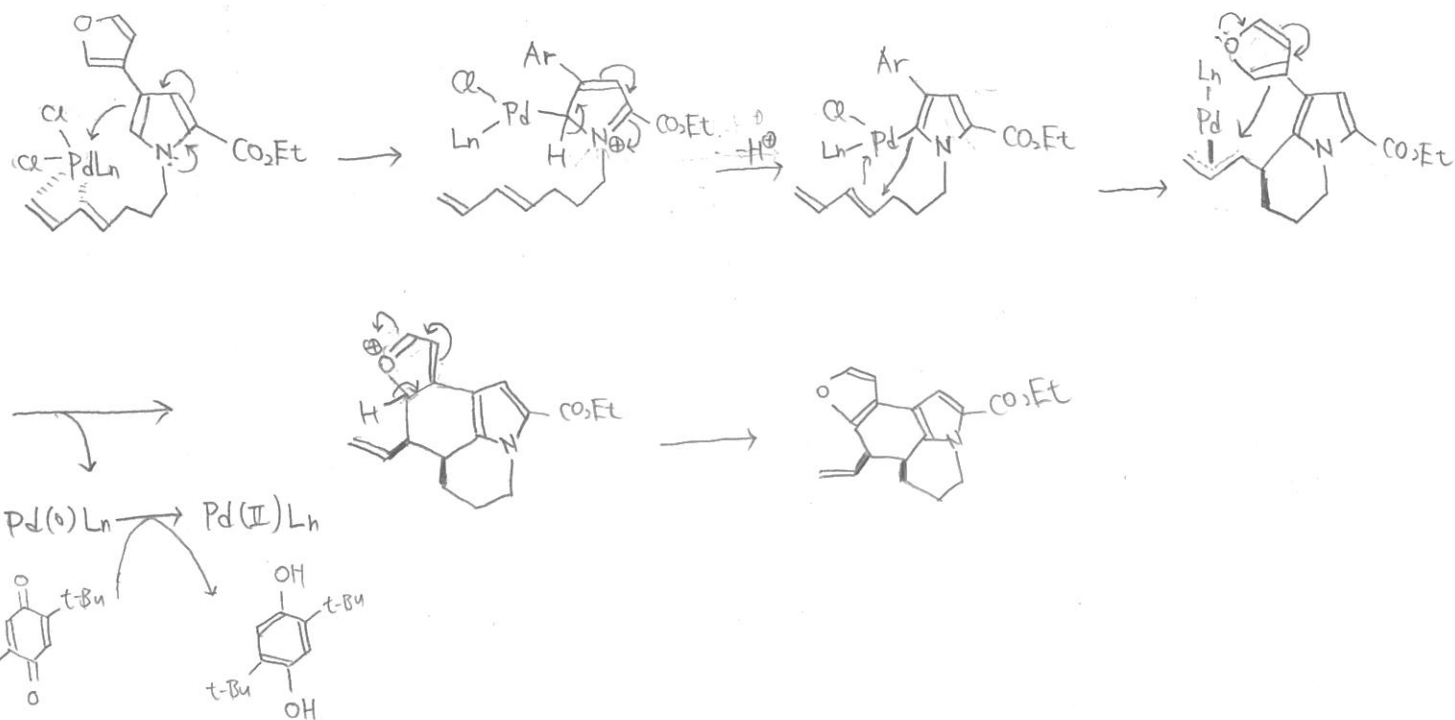
This reaction proceeds via intermediate (b), which has the most stable conformation.



3



1



2

