I. Write structural products for the reactions below:

1.



2.



3.



4.



5.



6. 

7.

8.

9.



10.



11.

1. Write the major product of the following reactions:



1. Supply the reagents for these transformations.





1. Fill in the missing starting material, reagents or products as necessary.

a.



b.



c.



1. Please propose a mechanism for the following reactions: (NOTE: Show all curved arrows and intermediates)



