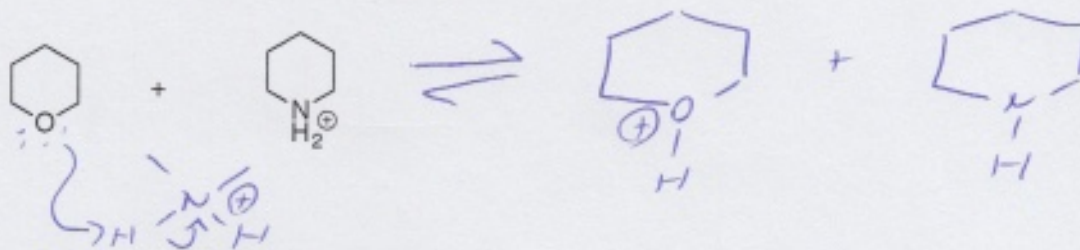


14. For the following reaction:

a. Draw the mechanism and products.



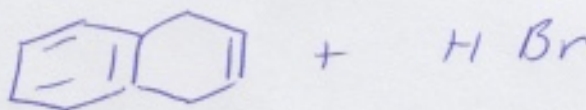
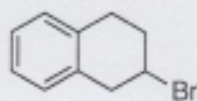
b. Predict the direction of the equilibrium.

c. Explain your choice in part b.

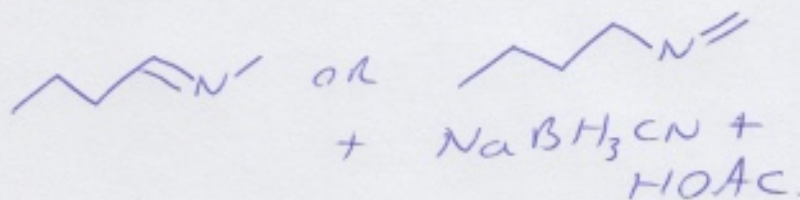
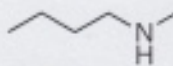
- ← REACTANTS
- OXYGEN IS RIGHT OF NITROGEN ON PERIODIC TABLE
 - OXYGEN IS MORE ELECTRONEGATIVE
 - + CHARGES ARE DE-STABILIZED ON ELECTRONEGATIVE ELEMENTS.
 - + THE OXYGEN IS STRONGEST ACID.

15. Draw the starting materials that should be used to form each of the compounds below, from a reaction that involves a π bond (One of the starting materials in each set should contain a π bond).

a.



b.



c.

