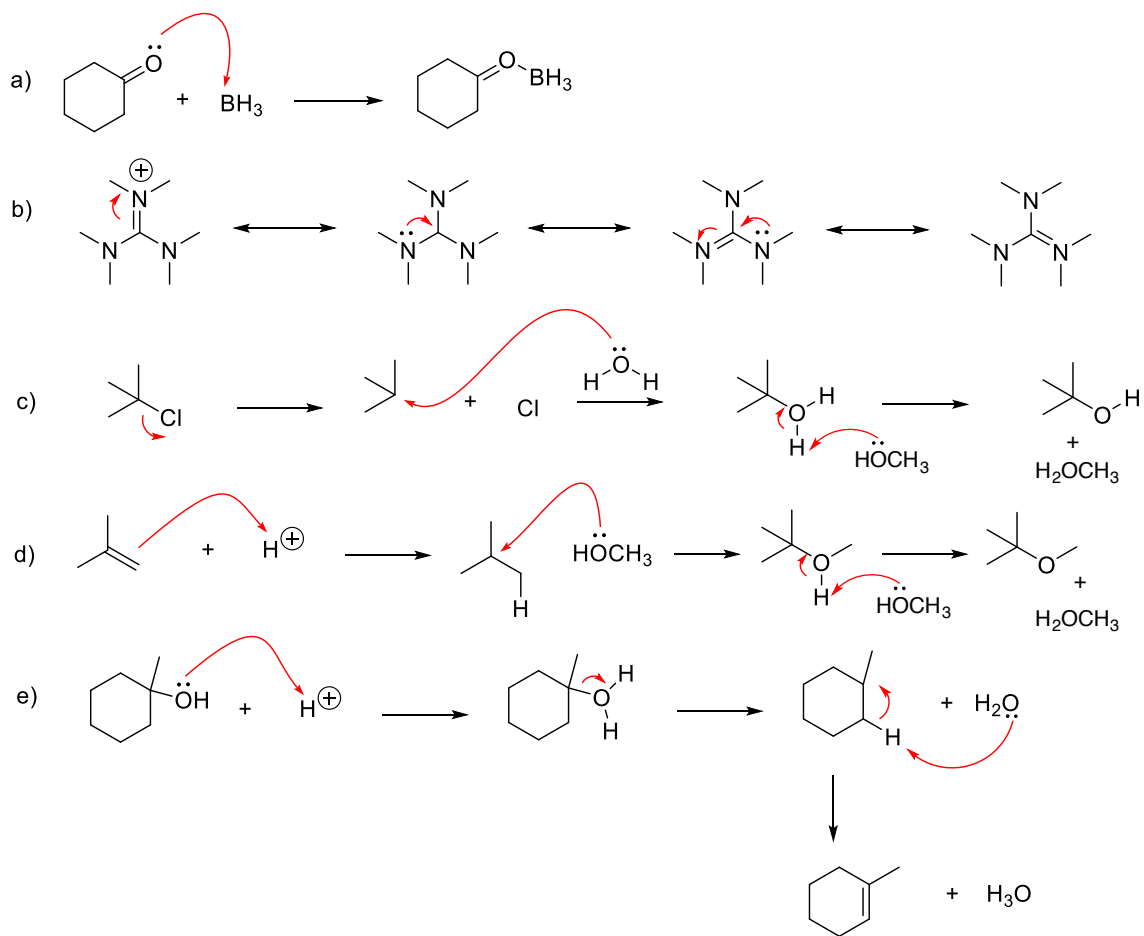
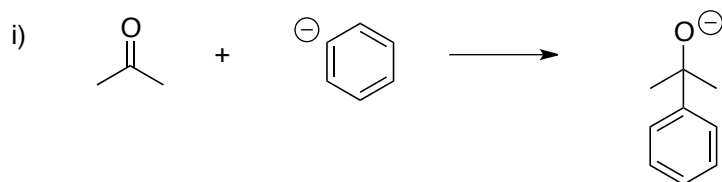
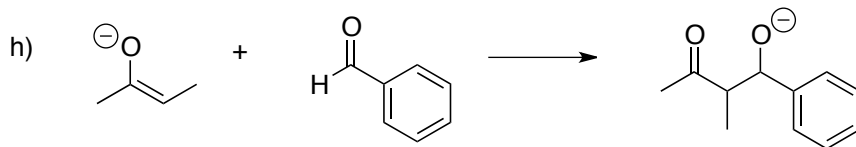
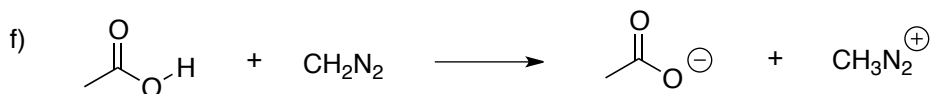
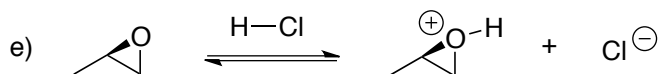
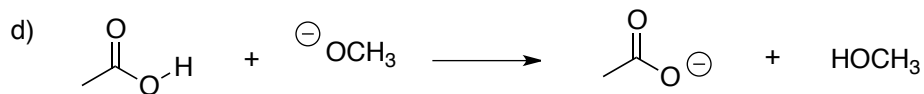
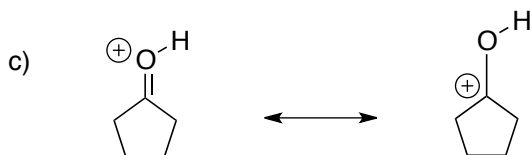
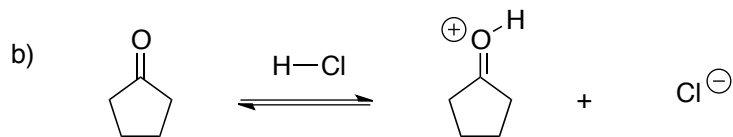
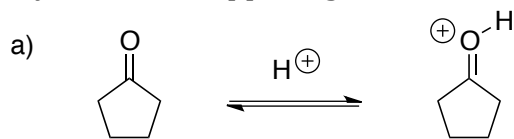


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Problem set 5—Mechanisms

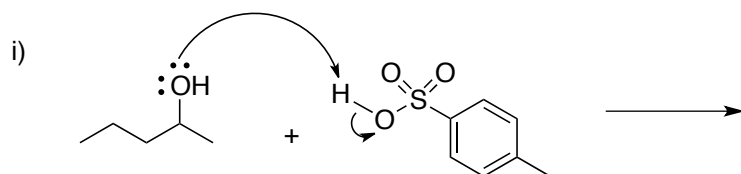
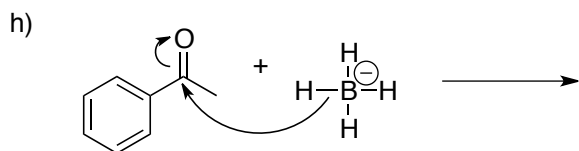
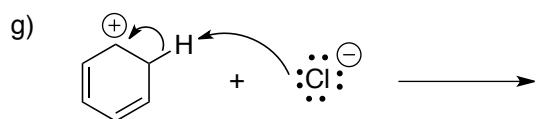
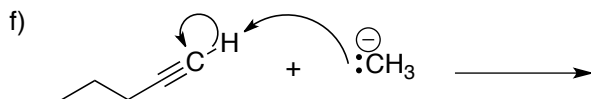
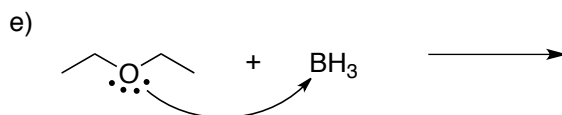
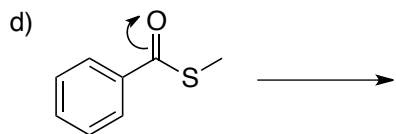
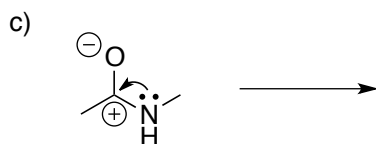
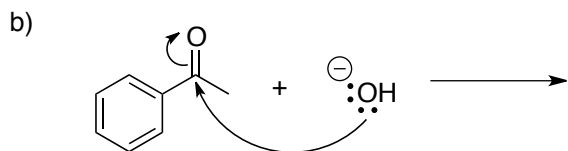
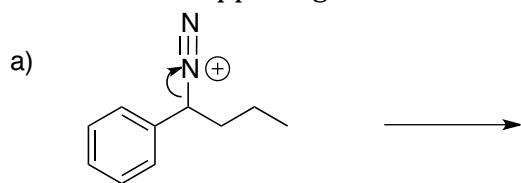
1. Assign formal charges based on the curved arrows provided. No atoms have been added or removed from the initial ones provided.



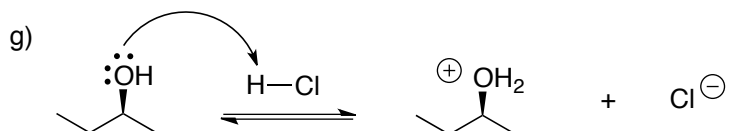
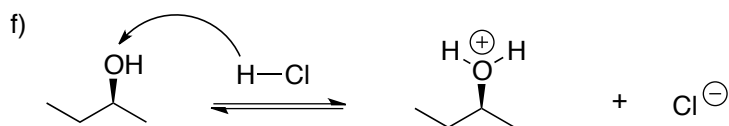
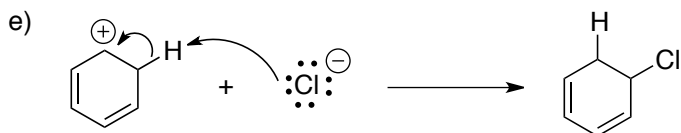
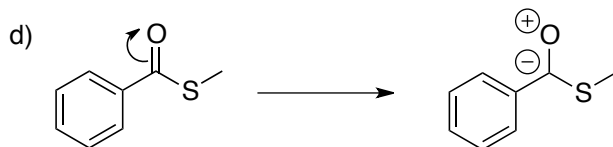
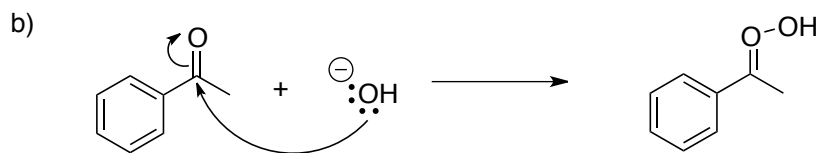
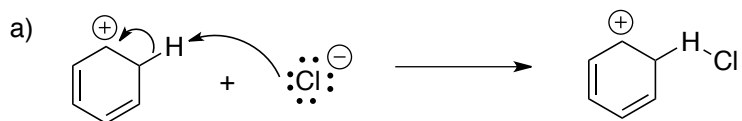
2. Draw in the arrows that explain each step in the following reactions. Note: you are not responsible for memorizing these reactions. The goal is for you to analyze what is happening and draw the appropriate arrows.



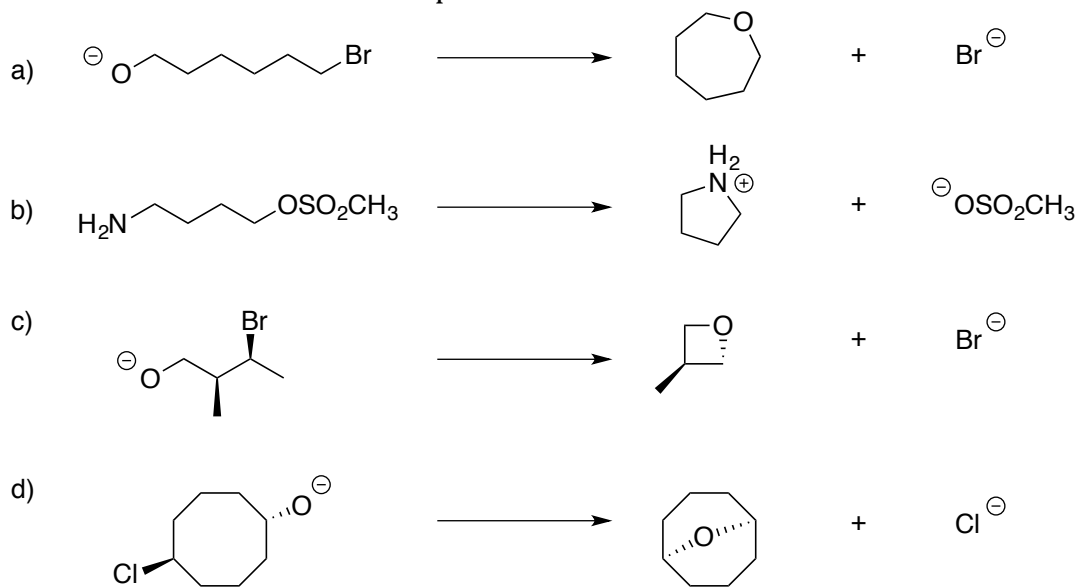
3. Draw the product of each of the following reactions. Note: you are not responsible for memorizing these reactions. The goal is for you to analyze what is happening and draw the resulting products.



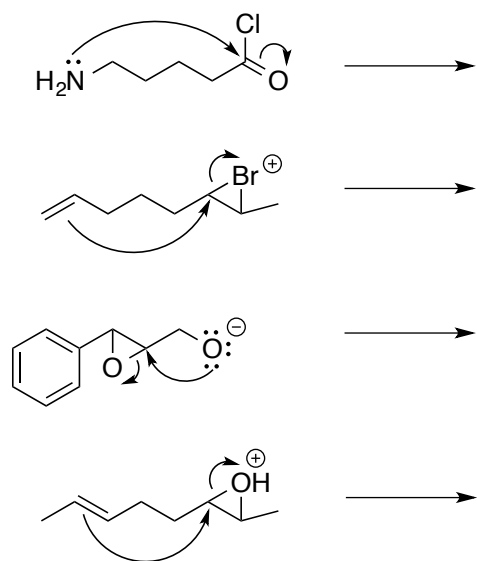
4. Identify the error in each of the following mechanisms, then draw the mechanism correctly.



5. Add curved arrows to explain the mechanism of each reaction below:



6. Draw the product of each reaction.



7. Draw the mechanism (that means to include curved arrows) for the forward and reverse of each reaction.

