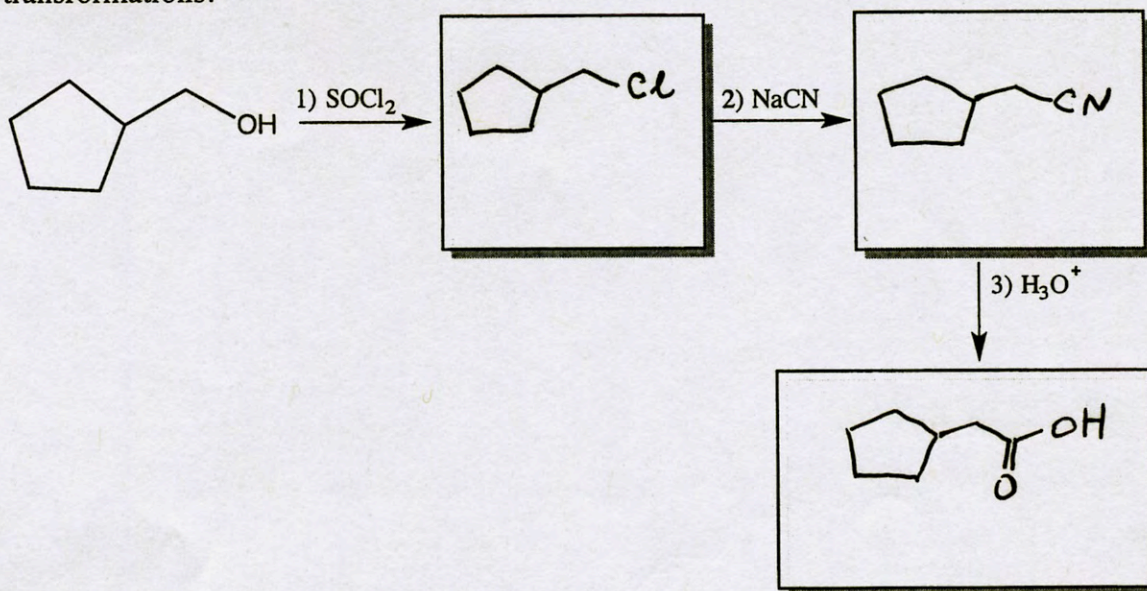
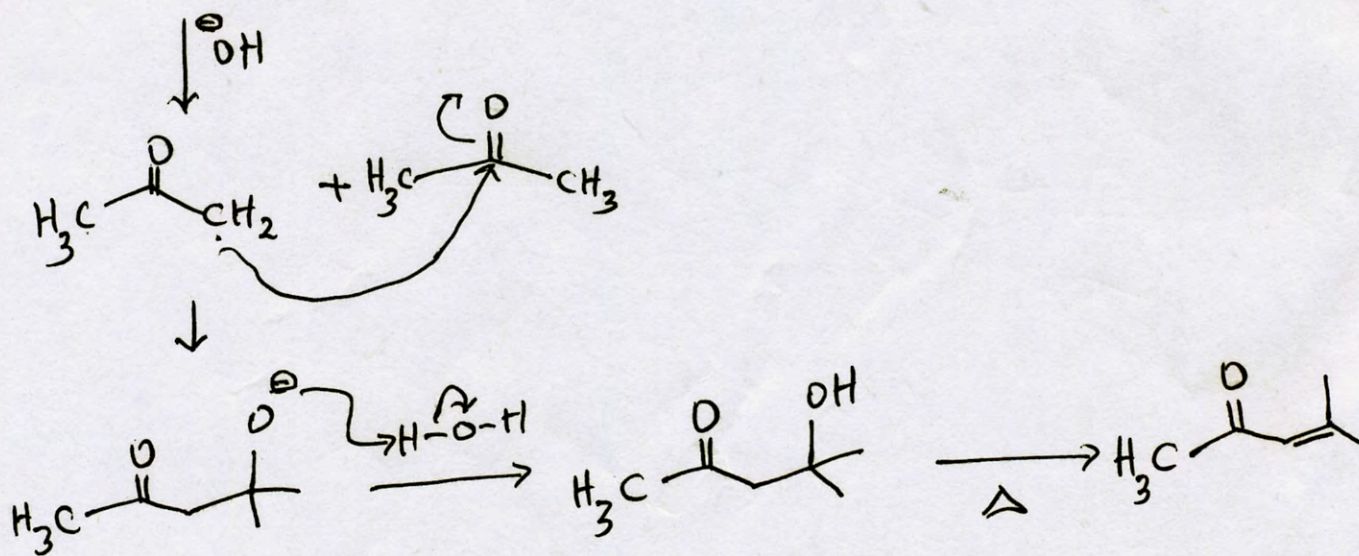
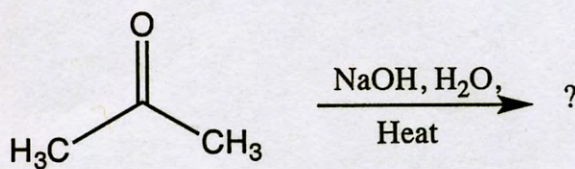


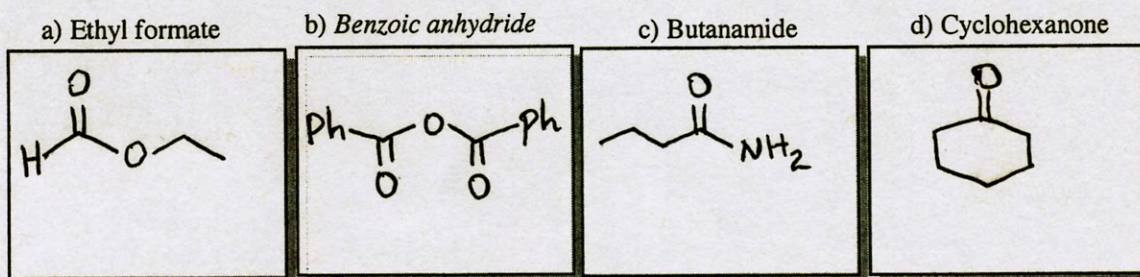
1 (9 Points, 3 pts. Each) Provide the reagents needed for the following chemical transformations.



2. (6 Points) Provide a stepwise mechanism for the following Aldol condensation reaction and give the product.



3. (4 Points, 1 pts. Each) Draw the structure for the following compounds:



4. (6 Points) Provide a stepwise mechanism for the following Claisen condensation reaction and give the product.

