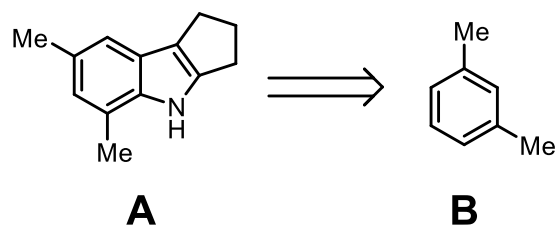
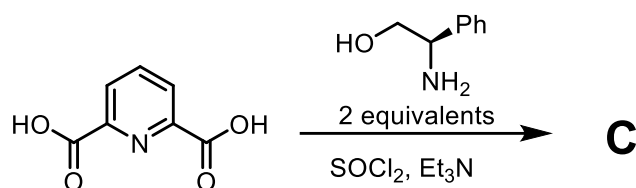


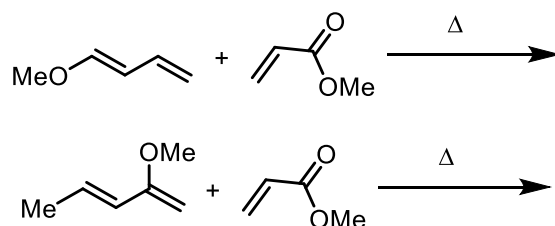
1. Provide a feasible synthesis of compound **A** starting from **B**



2. Provide the reaction product:



3. Provide the following reaction product for both reactions, explain the regioselectivity and diastereoselectivity and provide an explanation for the major product.



4. Propose the starting materials to obtain the following product. Explain the regio and stereoselectivity

