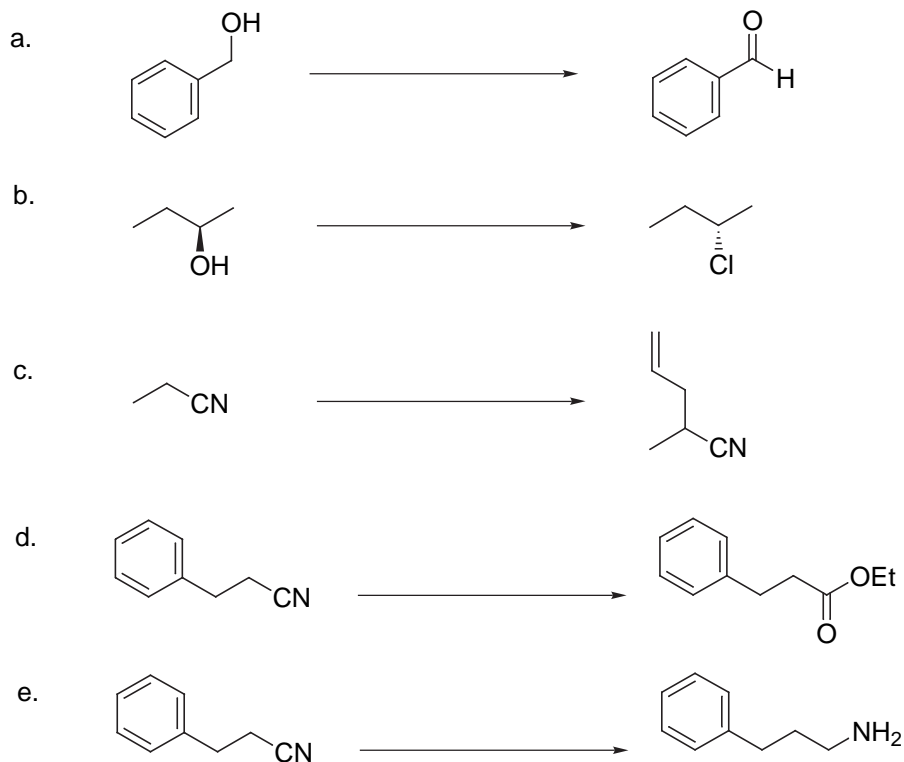
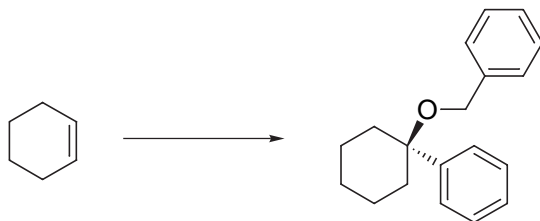


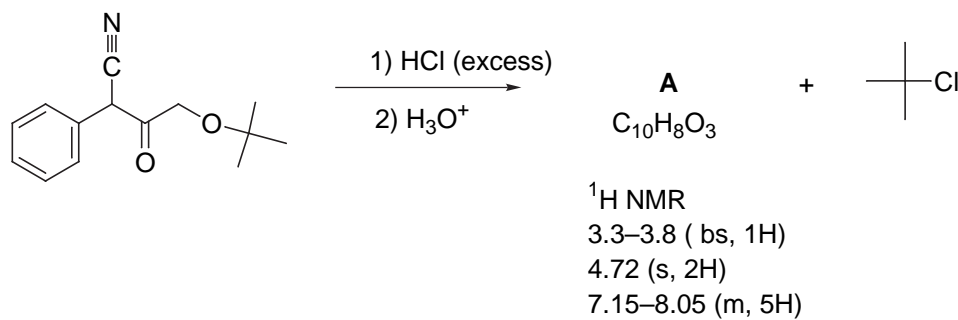
1. Provide the reagents/reaction conditions for the following transformations. Write your answers over the arrows.



2. Provide a multistep syntheses starting from cyclohexene and any other materials.



3. Provide the structure of **A**. Provide a mechanism for its formation



HINT: the mechanism is related to your answer to question 1d