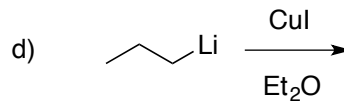
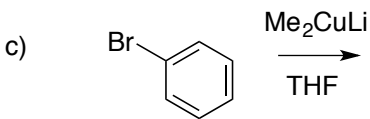
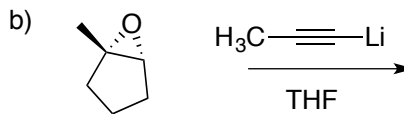
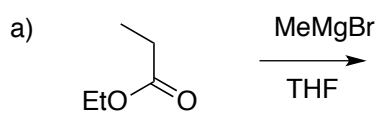
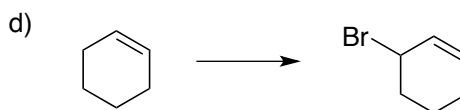
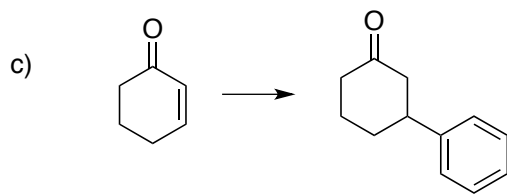
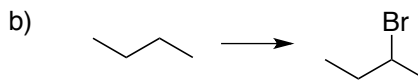
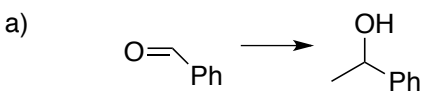


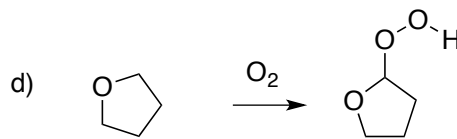
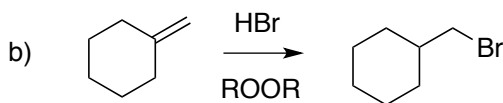
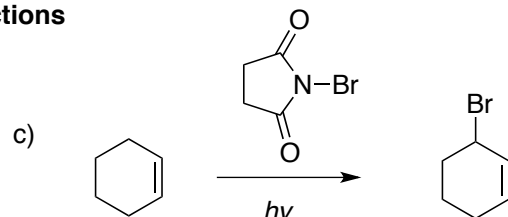
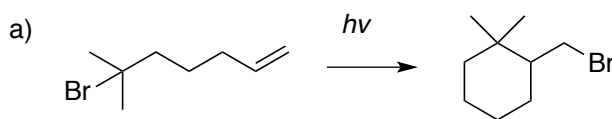
## 1) Predict the products of the following reactions



## 2) Propose reagents to carry out the following reactions.



## 3) Show a radical chain mechanism for the following reactions



## 4) Synthesize the following compounds starting from ethane as the only carbon source.

