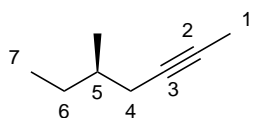
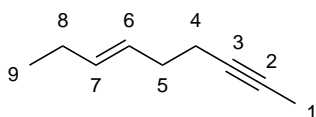


## Problem Set 8 Chapter 7, Alkynes

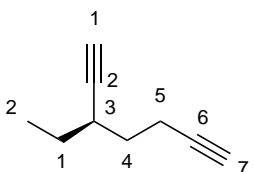
1. Name the following compounds (include stereochemistry when appropriate).



(R)-5-methylhept-2-yne

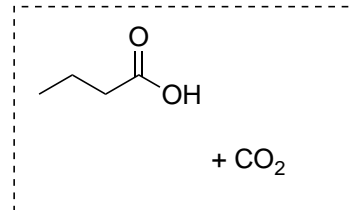
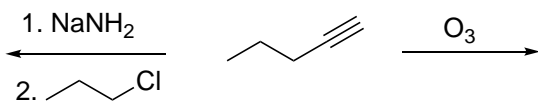
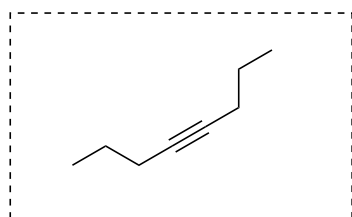
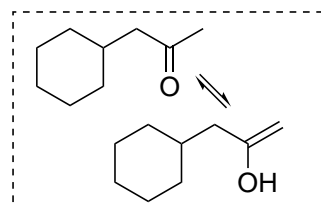
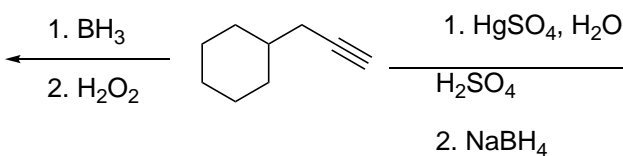
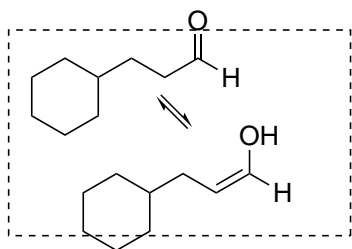
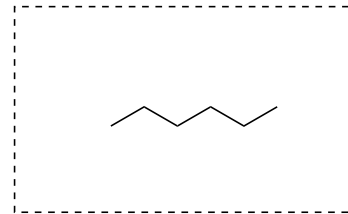
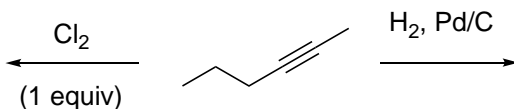
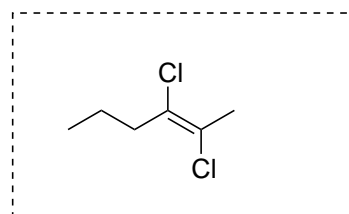
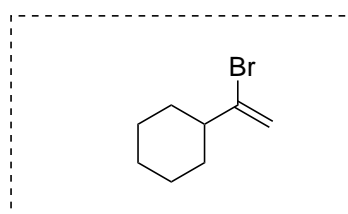
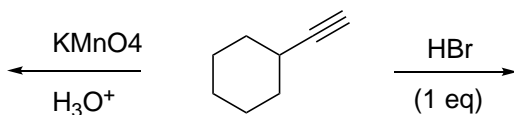
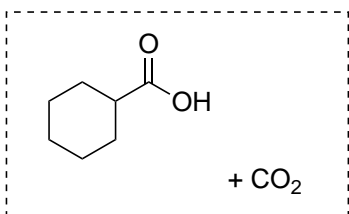


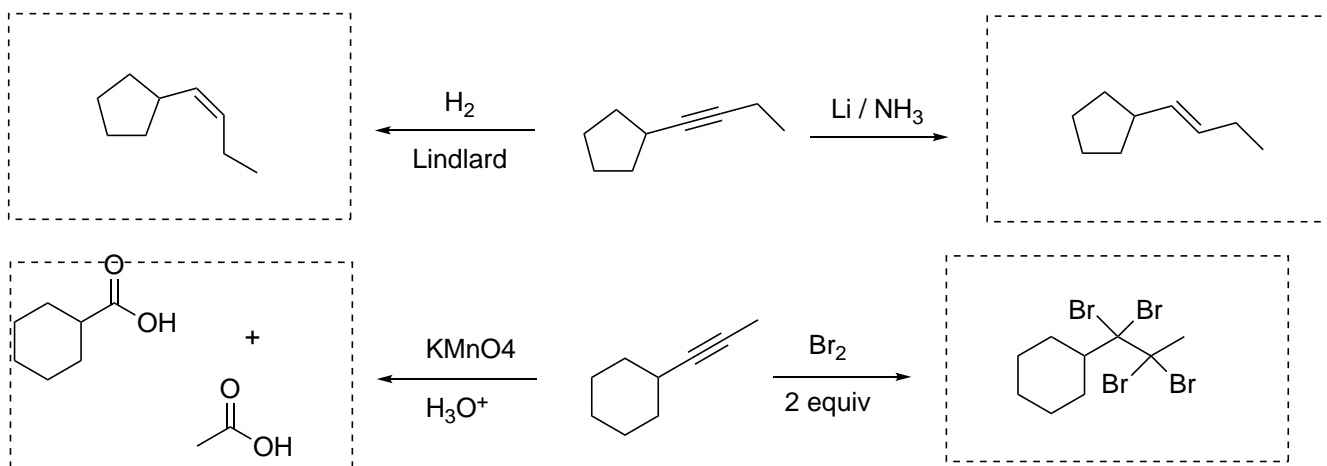
(E)-non-6-en-2-yne



(R)-3-ethylhepta-1,6-diyne

2. Provide the major organic products for the following reactions.





3. Propose a route for the following synthesis problems.

