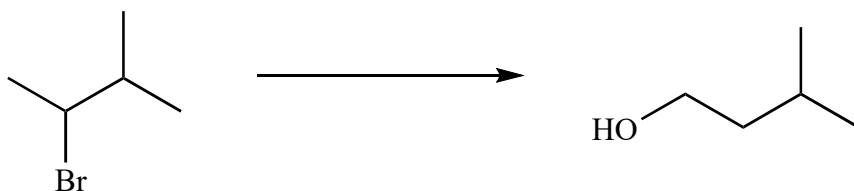
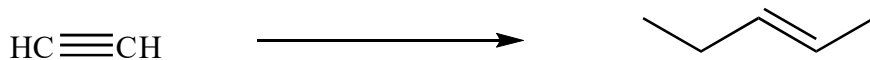


8A) (12 pts) Provide the reagents necessary to transform the given starting material into the desired product. **If more than one synthetic step is needed, you must show the intermediate products formed.** It may help to begin with a retrosynthesis, but you are not required to do so.



8B) (8 pts) Compound **A**, C_7H_{12} , when hydrogenated in the presence of Lindlar's catalyst, gives compound **B**, C_7H_{14} . When **B** is treated with ozone, followed by a reductive work-up, aldehydes **C** and **D** are produced. Propose structure for **A** and **B**. Place your answers in the boxes provided (or circle them).

