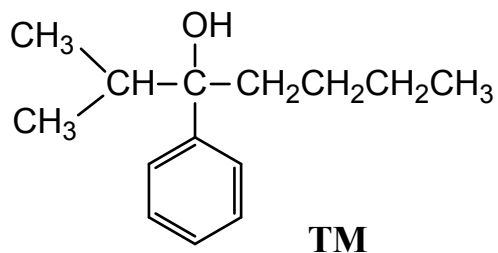


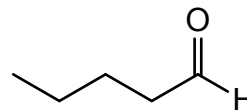
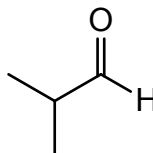
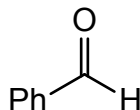
California State Polytechnic University, Pomona
Organic Chemistry II, CHM 3150, Dr. Laurie S. Starkey
Alcohol Synthesis Homework

Name: _____ Section: _____ (day/time)

A) Suggest **two** possible syntheses for the following target molecule (**TM**), starting with any **aldehyde** (start each synthesis with a different aldehyde). It may help to first consider a retrosynthesis of the TM.



Hint! Possible aldehyde starting materials:



B) Show how you would synthesize pentanal (shown above) using the given starting materials:

1-pentene \longrightarrow

1-hexene \longrightarrow

1-pentyne \longrightarrow