Some Creative Synthesis Problems from your colleagues (emphasizing chapters 8, 9, 10)

On all of these the limitations on the carbon compounds that may be used are specified. All other desired carbon compounds must be made from these.

Make:

1) \[
\text{CH}_3\text{CHOH}
\]
   May use any hydrocarbons with 5 C's or less (Kate and TJ)

2) \[
\text{CH}_3\text{COH}
\]
   Use 1,3-butadiene, ethyne, and methyl bromide as carbon compounds (Alvin)

3) \[
\text{CH}_2\text{CH}_2\text{OCH}_3
\]
   May use any two different diene compounds and any one-carbon compounds (Andrew B.)

4) \[
\text{OCH}_3
\]
   Use 1,3-butadiene and any other carbon compounds (Andrew L.)

5) \[

\]
   Use 1,3-butadiene, ethane, and ethyne as the only carbon compounds (John)

6) \[
\text{C}≡\text{C-CH}_3
\]
   Use \( \text{CH}_2=\text{CH-CH}=\text{CH}_2 \), \( \text{CH}≡\text{CH} \) and \( \text{CH}_3\text{Cl} \) as the only organic compounds (Chris)

There were other good ones too but this is a selection of some different variations which you can use for practice. Good work. Have fun solving them.