



# Chem 341 • Organic Chemistry I

## Suggested Problems • Chapter 01

### Problems from your text

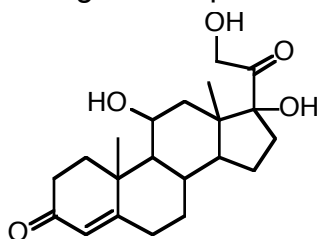
As a minimum, you should do the following problems from your textbook.

You can find answers in the solutions manual.

1.2, 1.5, 1.6, 1.7, 1.11, 1.14, 1.16, 1.19, 1.24, 1.27, 1.28, 1.29, 1.32, 1.37, 1.41, 1.43, 1.46, 1.47

### Additional Practice Problems

1. In the following molecule, identify the hybridization of all carbons and oxygens. How many sigma and pi bonds are present? (Don't forget about atoms not explicitly written)



2. Draw a Kekulé structure for the following compounds showing the geometry (linear or bent).

a)  $\text{CO}_2$

b)  $\text{H}_2\text{S}$

c)  $\text{HCN}$

d)  $\text{HCCH}$  (acetylene)