Chapter 2 HOMEWORK #1
given out August 18, 2015
To Be Collected August 25, 2015

To be discussed: Tuesday, August 18 & 25, 2015

1. Use the information in Table 2.4 (page 28) to show how you derive the pKa from the Ka for:

   a) Glycine

   b) bicarbonate

2. Calculate the ratio of conjugate base/weak acid (i.e. HC00-/HC00H) for formic acid at the following pH. Note: the pKa is 3.8

   a) pH 7.0.

   b) pH 1

3. Do the following problems:
   Edition 2 : Chapter #1: 4-9, 11, 12 (page 15); Chapter 2: # 1-16, (page 32)
   or
   Edition 3 : Chapter #1: 4-9, 11, 12 (page 15); Chapter 2: # 1-18, 20, 22, 23 (page 32)