

Name _____
ID # _____

Chapter 2 HOMEWORK #1

given out August 16, 2010

To be discussed: Tuesday, August 17 & 24, 2010

1. Use the information in Table 2.4 (page 43) to show how you derive the pK_a from the K_a for:

a) Formic acid

b) bicarbonate

2. Calculate the ratio of conjugate base/weak acid (i.e. HC₀₀⁻/HC₀₀H) for formic acid at:

a) pH 7.0.

b) pH 1

3. Work through sample calculation 2.2 (page 47).

4. Do problems # 2, 4, 5, 7, 9, 10, 11, 13, 14, 15 (page 49-51).