WS 4.15 WEAK BASE PROBLEM SET

Name:_____ _____

1. Calculate the Kb for of HCO_3^-.

2. Calculate the pH of 0.01 M NaF.

3. What is the initial concentration of the weak base SO_3^{2-} if the final pH = 9.69?

4. What is the pH of 0.50 M NaCN?

5. The pH of a 0.1 M solution of NaX is 8.85. Calculate the Kb of the base X^{-1}.

6. Using the information above, calculate the Ka of the acid HX.

7. A 0.18 M solution of a weak base has a pH of 8.95. Calculate the Kb of the base.