**Topics: Acid-Base Quiz**

1. What is a base? How can you tell if something is a base from its formula? (3 pt)
2. Indicate whether the following solutions are acidic, basic, or neutral. (1 pt each)

* pH = 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* pH = 7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* pH = 14.3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the pH of a 0.0085 M solution of NaOH? (3 pt)
2. What is the pH of a 5.0 x 10-5 M solution of HBr? (3 pt)
3. If it takes 67 mL of 0.250 M HI to titrate 50 mL of KOH with unknown concentration, what is the concentration and pH of the KOH solution? (6 pt)
4. Define these terms: (2 pt each)

* titration
* indicator