**Topics: Acid-Base Quiz Makeup 2**

1. Explain how a titration works. (3 pt)
2. The pH scale helps us to figure out whether a solution is acidic, basic, or neutral. What ranges of pH correspond to each? (1 pt each):

* acid pH range:
* neutral pH range:
* basic pH range:

1. What is the pH of a 0.0085 M solution of HI? (3 pt)
2. What is the pH of a 5.0 x 10-5 M solution of KOH? (3 pt)
3. If it takes 65 mL of 0.350 M HI to titrate 40 mL of NaOH with unknown concentration, what is the concentration and pH of the NaOH solution? (6 pt)
4. Define these terms: (2 pt each)

* acid
* base