Mini-quiz 13 Chem 1013 6 March 2013 6 pts

Your name:\_\_\_\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.1 Compute the log values below:

1. log (6.02\*1023) = \_\_\_+23.779\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. log (6.626\*10-34) = \_\_\_-33.169\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.2 Compute the pH of:

1. [H+] = 1\*10-6 pH =\_\_\_\_\_\_\_\_6.0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. [H+] = 3\*10-2 pH =\_\_\_\_\_\_\_\_1.52\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. [H+] = 3\*10-14 pH =\_\_\_\_\_\_\_\_13.52\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_