



6. a) What is the hydrogen ion concentration of an aqueous HCl solution that has a pH of 3.0?

b) What is the hydroxide ion concentration of this same solution?

c) Which ion,  $H^+$  or  $OH^-$ , is in greater concentration? \_\_\_\_\_

d) Is this solution acidic or basic? \_\_\_\_\_

7. Find the  $[H^+]$  and the  $[OH^-]$  of a solution with a pH of 3.494.

Is this solution acidic or basic? \_\_\_\_\_