

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? _____