1. A solution has a pH of 6.54. Report the [H+], [OH-], and the pOH. Is the solution acidic or basic?
2. Name the following compounds: HBr, H3PO4,HClO3, H2CrO4, RbOH, CaOH, FeOH.
3. Write the chemical formula for the following compounds: Lithium Hydroxide, Cobalt (III) Hydroxide, Hydrophosphoric acid, Carbonic acid, Chlorous acid.
4. Write an equation for hydrobromic acid (HBr) reacting with ammonia (NH3). Label the acid, the base, the conjugate acid, and the conjugate base.
5. A solution has a pOH of 3.22. Report the [H+], [OH-], and the pH. Is the solution acidic or basic?
6. If it takes 67 mL of 0.32 M Ca(OH)2 to neutralize 150 mL of H3PO4, what is the concentration of the H3PO4?
7. Write the neutralization reaction for calcium hydroxide reacting with nitrous acid. *Remember you should get water and a salt!*