Solubility Rules (Table 4.1 of text)

1. Most nitrate salts (NO_3^-) ARE soluble.

2. Most salts containing the alkali metals (Li^+, Na^+, K^+, Cs^+, Rb^+) or ammonia (NH_4^+) ARE soluble.

3. Cl^-, Br^-, and I^- salts are usually soluble. EXCEPT AgCl, $PbCl_2$ and Hg_2Cl_2 which are NOT soluble.

4. Most sulfates (SO_4^{2-}) are soluble. EXCEPT $BaSO_4$, $PbSO_4$, Hg_2SO_4 and $CaSO_4$ which are NOT soluble

5. Most hydroxides (OH^-) are only slightly soluble. NaOH and KOH ARE soluble (see rule 2) $Ba(OH)_2$, $Sr(OH)_2$ and $Ca(OH)_2$ are marginally soluble.

6. Sulfides (S^{2-}) Carbonates (CO_3^{2-}) Chromates (CrO_4^{2-}) and Phosphates (PO_4^{3-}) are only slightly soluble.