Practice Writing Net Ionic Equations

Double Replacement

1. potassium iodide added to lead(II) nitrate
2. sodium sulfite combined with acetic acid
3. a solution of sodium chloride added to dilute sulfuric acid
4. barium nitrate added to sodium oxalate
5. sodium bicarbonate added to hydrochloric acid

ANSWERS:

1. $2\ KI + Pb(NO_3)_2 \longrightarrow 2\ KNO_3 + PbI_2$ $\quad [2\ I^{1-} + Pb^{2+} \longrightarrow PbI_2]$
2. $Na_2SO_3 + 2\ HC_2H_3O_2 \longrightarrow 2\ NaC_2H_3O_2 + SO_2 + H_2O$ $\quad [SO_3^{2-} + 2\ H^{1+} \longrightarrow SO_2 + H_2O]$
3. $NaCl + H_2SO_4 \longrightarrow$ probably no reaction
4. $Ba(NO_3)_2 + Na_2C_2O_4 \longrightarrow BaC_2O_4 + 2\ NaNO_3$ $\quad [Ba^{2+} + C_2O_4^{2-} \longrightarrow BaC_2O_4]$
5. $NaHCO_3 + HCl \longrightarrow NaCl + H_2O + CO_2$ $\quad [HCO_3^{1-} + H^{1+} \longrightarrow H_2O + CO_2]$