06/04/24

Balance the following unbalanced equations

$SiO_2(s) + HF(g) \rightarrow SiF_4(g) + H_2O(l)$

$FeS_2(s) + O_2(g) \rightarrow Fe_2O_3(s) + SO_2(g)$

$Mg_3N_2(s) + H_2O(l) \rightarrow NH_3(g) + Mg(OH)_2(s)$

$KNO_3(s) + C_{12}H_{22}O_{11}(s) \rightarrow N_2(g) + CO_2(g) + H_2O(l) + K_2CO_3(s)$ ***THIS ONE IS SUPER EVIL***

$Ca_5F(PO_4)_3(s) + H_2SO_4(aq) \rightarrow Ca(H_2PO_4)_2(s) + CaSO_4(s) + HF(g)$

$U_3O_8(s) + HNO_3(aq) \rightarrow UO_2(NO_3)_2(s) + NO_2(g) + H_2O(l)$

Write both the balanced total ionic equation and the balanced net ionic equation for what happens when a solution of aluminum nitrate is mixed with a solution of sodium carbonate.

Write both the balanced total ionic equation and the balanced net ionic equation for what happens when a solution of magnesium nitrate is mixed with a solution of ammonium carbonate.

Write both the balanced total ionic equation and the balanced net ionic equation for what happens when a solution of potassium chloride is mixed with a solution of aluminum nitrate.