CW #3 – Balancing Chemical Equations

Directions: Balance the following reactions.

1. AgF(aq) + CaCl2(aq) 🡪 AgCl(s) + CaF2(aq)
2. Na(s) + CaF2(aq) 🡪 Ca(s) + NaF(aq)
3. C5H10O4(l) + O2(G) 🡪 CO2(g) + H2O(g)
4. Fe(s) + O2(g) 🡪 Fe2O3(s)
5. Mg3(PO4)2(aq) + H2(g) 🡪 Mg(s) + H2PO4(aq)
6. H3PO4(aq) + Na2CO3(aq) 🡪 Na3PO4(aq) + H2O(l) + CO2(g)
7. Al2S3(s) 🡪 Al(s) + S8(s)
8. C12H22O11(s) + O2(g) 🡪 CO2(g) + H2O(g)
9. PbCl2(aq) + AgNO3(aq) 🡪 Pb(NO3)2(s) + AgCl(aq)
10. NH3(aq) + Cl2(g) 🡪 NH4Cl(aq)
11. MgO(s) 🡪 Mg(s) + O2(g)
12. NaOH(aq) + CuSO4(aq) 🡪 Na2SO4(aq) + Cu(OH)2(s)
13. CaCO3(aq) + H3PO4(aq) 🡪 Ca3(PO4)2(aq) + H2CO3(aq)
14. H2SO4(aq) + Fe(s) 🡪 H2(g) + FeSO4(aq)
15. HF(aq) + Fe(OH)3(aq) 🡪 H2O(l) + FeF3(aq)