**BALANCING EQUATIONS: FORMULAS GIVEN Practice Sheet #1**

**Balance the following equations, give the type of reaction for those equations with lines:**

1. Al + N2 → AlN \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Fe + O2 → Fe3O4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. CaCO3 → CaO + CO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. NH4NO3 → N2O + H2O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. KI + Cl2 → KCl + I2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Pb(NO3)2 + HCl → PbCl2 + HNO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. BaO2 → BaO + O2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Al + H2SO4 → Al2(SO4)3 + H2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. CH4 + Cl2 → CHCl3 + HCl

10. MgCl2 + NaOH → Mg(OH)2 + NaCl \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. AgNO3 + CuCl2 → AgCl + Cu(NO3)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. ZnS + O2 → ZnO + SO2

13. Na + H2O → H2 + NaOH

14. BaCl2 + (NH4)2CO3 → BaCO3 + NH4Cl

15. C6H6 + O2 → CO2 + H2O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Na + H2O → NaOH + H2

17. Fe + FeCl3  -→ FeCl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. Ba(OH)2 + AlCl3 → Al(OH)3 + BaCl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19. H2C2O4 + KOH → K2C2O4  + H2O

20. C2H2Cl4 + Ca(OH)2 → C2HCl3 + CaCl2 + H2O