MORE BALANCING PROBLEMS

1. Complete each of the following synthesis reactions and balance:

a) Sc + $O_2 \rightarrow$

b) K + $N_2 \rightarrow$

c) $H_2O + SO_3 \rightarrow$

d) $NH_3 + HCl \rightarrow$

e) K_2O + CO_2 \rightarrow

2. Complete each of the following decomposition reactions and balance:

a) CuO →

b) $SiCl_4 \rightarrow$

c) $CaCO_3 \rightarrow$

d) $SO_3 \rightarrow$

e) $H_2O \rightarrow$

3. Complete each of the following single replacement reactions and balance:

a) $Cd(NO_3)_2 + Ag \rightarrow$

b) $UF_6 + Zn \rightarrow$

c) $SnI_4 + Cl_2 \rightarrow$

d) Ca_3P_2 + Br_2 \rightarrow

e) Fe_2O_3 + Pt \rightarrow

4. Complete each of the following double replacement reaction and balance:

a) $ZnCO_3 + H_3PO_4 \rightarrow$

b) $NaClO_3 + CaSO_4 \rightarrow$

c) Au_2S_3 + PbC \rightarrow

d) $W(SO_4)_3 + Y(ClO_4)_3 \rightarrow$