## STILL MORE BALANCING PROBLEMS

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

a) Mg +  $N_2 \rightarrow$ 

b) Na + S →

c)  $CO_2 + Na_2O \rightarrow$ 

d)  $NH_3 + HBr \rightarrow$ 

e) MgO + CO₂ →

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

a)  $Fe_2O_3 \rightarrow$ 

b)  $AsCl_3 \rightarrow$ 

c)  $BaCO_3 \rightarrow$ 

d)  $P_2O_5$   $\rightarrow$ 

e)  $H_2S \rightarrow$ 

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

a)  $Hg(ClO_3)_2 + Zn \rightarrow$ 

b)  $CrO_3 + Al \rightarrow$ 

c) AgI +  $F_2 \rightarrow$ 

d)  $Mg_3N_2$  +  $Cl_2$   $\rightarrow$ 

e) NiO + Fe →

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

a)  $CdSO_4 + H_3PO_4 \rightarrow$ 

b)  $NH_4Cl + BaCO_3 \rightarrow$ 

c)  $Au_2O_3$  + PtC  $\rightarrow$ 

d)  $Cr(CO_3)_3 + Bi(NO_3)_3 \rightarrow$