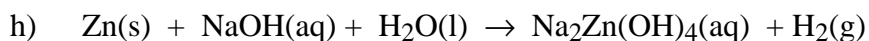
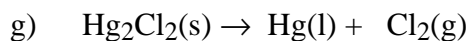
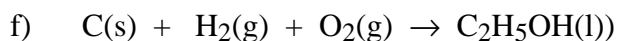
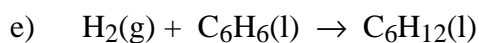
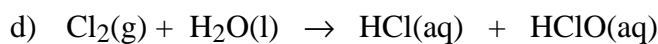
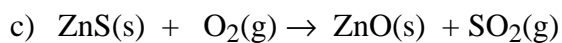
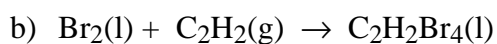
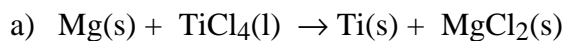


Chem 1014
In-Class Problem Set #7
InClass October 6, 1999
Fall 1999

Name _____
TA Name _____
Lab Section # _____

Here are some extra problems to practice on similar to those in ICPS7

1. Balance each of the following equations



2. Write and balance the equation for each of the following

a) A formation equation for ZnO.

b) A formation equation for CO₂.

c) A formation equation for HCL.

d) The reaction for the combustion of propane (C₃H₈).

3. Calculate the number of atoms in each of the following;

a) 1.00 g helium
(note the mass of a helium atom
is 6.645×10^{-24} g)

b) 17.0 g Na atoms
(note the mass of a sodium atom
is 3.821×10^{-23} g)

4. Calculate the number of atoms in each of the following; (Use Avogadro's number to solve these problems.)

a) 2.73×10^{-2} g carbon

b) 5.0397 g silicon

c) 125 g gold

d) 1.5 mol Mg

e) 8.12×10^2 mol iron

f) 75 g Al

4. Calculate the mass in each of the following;

a) 1.04×10^3 mol Kr

b) 5.92×10^{22} atoms titanium

c) 1.78 mol CO₂

d) 0.0710 mol C₂H₆