WRITING & BALANCING CHEMICAL EQUATIONS Exit Ticket 9

- 1. Write a balanced chemical equation for each chemical reaction descried below. Include state designations for each substance.
 - a) Gaseous ammonia (NH₃) reacts with gaseous oxygen to form gaseous nitrogen monoxide and gaseous water.
 - b) Aqueous hydrochloric acid reacts with solid manganese(IV) oxide to form aqueous manganese(II) chloride, liquid water and chlorine gas.
- 2. Balance each chemical equation shown below:

a)
$$__CO_2(g) + __CaSiO_3(s) + __H_2O(l) \rightarrow __SiO_2(s) + __Ca(HCO_3)_2(aq)$$

b) ____NH₃(g) + ____CO₂(g)
$$\rightarrow$$
 ____CO(NH₂)₂(s) + ____H₂O(l)

c) ____C7H₁₆ + ____O₂
$$\rightarrow$$
 ____CO₂ + ___H₂O

d)
$$__PH_3 + __O_2 \rightarrow __P_4O_{12} + __H_2O$$

e)
$$_$$
FeBr₃ + $$ _H₂SO₄ \rightarrow $_$ _Fe₂(SO₄)₃ + $_$ _HBr