General Chemistry Mr. MacGillivray Quiz #22:

Solubility, Precipitates, & Rxn. Prediction

Complete the following equations based on your knowledge of chemical reactions. Be sure to $\underline{\mathbf{balance\ them}}$ also. Note: all of these reactions $\underline{\mathbf{do}}$ take place.

$$Mg(s) + O_2(g) \Rightarrow$$

(product formed is a solid)

$$Pb(NO_3)_2$$
 (aq) + Nal (aq) \Rightarrow

(one solid is formed; the rest of the reactants stay aqueous)

Mg (s) + HCl (aq)
$$\Rightarrow$$

Will the following reactions occur? (That is, will any new products form?) Answer "YES" or "NO Reaction."

Ag (s) +
$$Cu(NO_3)_2$$
 (aq) \Rightarrow ?

Na (s) + Cu(NO₃)₂ (aq)
$$\Rightarrow$$
 ?

$$NaNO_3$$
 (aq) + $CaCl_2$ (aq) \Rightarrow ?

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Complete the following equations based on your knowledge of chemical reactions. Be sure to balance them also. Note: all of these reactions do take place.

$$2^{Mg(s)} + O_2(g) \Rightarrow 2^{MgO(s)}$$

· (product formed is a solid)

 $NaNO_3$ (aq) + $CaCl_2$ (aq)

$$Pb(NO_3)_2(aq) + 2Nal(aq) \Rightarrow PbI_2(s) + 2NaNO_3(aq)$$

(one solid is formed: the rest of the reactants stay aqueous)

$$Mg(s) + 2HCI(aq) \Rightarrow HZ(q) + MgCl_Z(qq)$$

Will the following reactions occur? (That is, will any new products form?) Answer "YES" or "NO Reaction."

Ag (s) +
$$Cu(NO_3)_2$$
 (aq) \Rightarrow ? NO $N \times N$ (see activity series)

and Ca(NO2) 2 would be soluble, too. Every thing

out & remains dissolved.