Chemistry

Writing Skeleton Equations from Word Descriptions

**Based off of the following word problems, write the associated skeleton equation.**

1. Zinc and lead (II) nitrate in an aqueous solution react to form aqueous zinc nitrate and lead. (Zinc has a +2 charge)

2. Aqueous aluminum bromide and chlorine gas react to form aluminum chloride in aqueous form and bromine gas.

3. Sodium phosphate and calcium chloride react to form calcium phosphate and sodium chloride. All of the compounds are in aqueous form.

4. Solid potassium chloride is formed by the reaction of potassium metal and chlorine gas.

5. Aqueous aluminum chloride and hydrogen gas are the products of a reaction between aluminum and aqueous hydrochloric acid.

6. Solid calcium hydroxide and aqueous phosphoric acid combine to form solid calcium phosphate and liquid water.

7. Copper metal and aqueous sulfuric acid merge to form a solid version of copper (II) sulfate, liquid water, and gaseous sulfur dioxide.

8. Nitrogen gas and water vapor are the products of a reaction between hydrogen gas and nitrogen gas.