Chemical Reactions
CHEMISTRY 110

Predict, complete, write and balance the following chemical equations:.....
A. using correct chemical formulas
and
B. correct physical states for reactants and products { (g), (l), (s), and (aq) }

Hint: Use your solubility rules and activity series!

1) Hydrobromic acid + aluminum metal --->

2) C\textsubscript{6}H\textsubscript{6} (l) + oxygen --->

3) Water is slowly mixed into calcium metal

4) Gaseous dihydrogen sulfide is bubbled through a solution of chromic acetate

5) A solution of ferric nitrate is poured into a flask containing aluminum metal

6) Manganese(II) carbonate decomposes

7) Bromine (liquid) + aqueous cobalt(III) iodide --->

8) Solid calcium oxide + water --->

9) Chromic acid + aqueous potassium hydroxide --->

10) Solid silver + chlorine(g) --->

11) Aqueous zinc sulfate + barium bromide(aq) --->
12) Aqueous lithium carbonate + aqueous Nickel (III) bromide ---->

13) Solid Tin (IV) nitride decomposes

14) Acetic acid + cuprous hydroxide ---->

15) Solid aluminum oxide + water (l) ---->

16) Aqueous magnesium chloride + aqueous silver nitrate ---->

17) Gaseous, C₄H₁₀ (butane) is combusted

18) Calcium metal is added to a solution of lead (II) acetate

19) Zinc metal is placed in steam

20) Aluminum metal combines with oxygen