

Chemical Reactions
CHEMISTRY 110

Name _____
last first

Predict, complete, write and balance the following chemical equations:.....

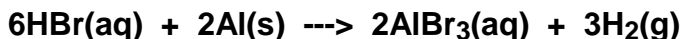
A. using correct chemical formulas

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) C₆H₆ (l) + oxygen ---->



3) Water is slowly mixed into calcium metal



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



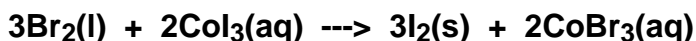
5) A solution of ferric nitrate is poured into a flask containing aluminum metal



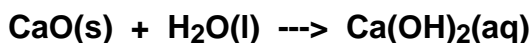
6) Manganese(II) carbonate decomposes



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



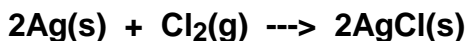
8) Solid calcium oxide + water---->



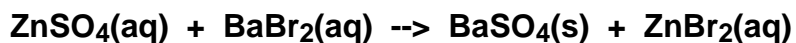
9) Chromic acid + aqueous potassium hydroxide---->



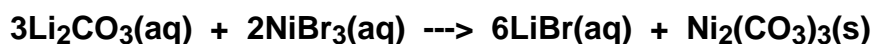
10) Solid silver + chlorine(g) ---->



11) Aqueous zinc sulfate + barium bromide(aq) ---->



12) Aqueous lithium carbonate + aqueous Nickel (III) bromide ---->



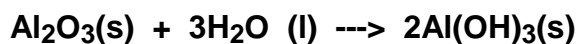
13) Solid Tin (IV) nitride decomposes



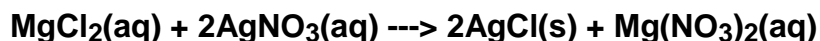
14) Acetic acid + cuprous hydroxide ---->



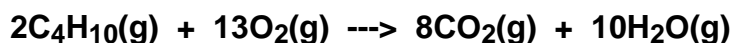
15) Solid aluminum oxide + water (l) ---->



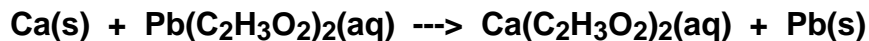
16) Aqueous magnesium chloride + aqueous silver nitrate ---->



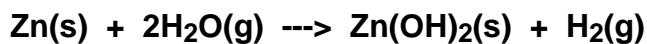
17) Gaseous, C₄H₁₀ (butane) is combusted



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

