Worksheet: Writing Equations

Write equations for the following reactions:

1)	The reaction of ammonia with iodine to form nitrogen triiodide (NI ₃) and hydrogen gas.
2)	The combustion of propane (C ₃ H ₈).
3)	The incomplete combustion of propane to form CO and water.
4)	The reaction of nitric acid with potassium hydroxide.
5)	The reaction of copper (II) oxide with hydrogen to form copper metal and water.
6)	The reaction of iron metal with oxygen to form iron (III) oxide.
7)	The complete combustion of 2,2-dimethylpropane (C_4H_{10}) in oxygen.
8)	The reaction of AlBr ₃ with Mg(OH) ₂
9)	The decomposition of hydrogen peroxide to form water and oxygen.
10)	The reaction of ammonia with sulfuric acid.

In the following problems, write some equation in which the following product might be formed:	
11)	carbon dioxide
12)	ammonium hydroxide
13)	copper (I) acetate
14)	vanadium (V) fluoride
15)	silver carbonate
	carbonic acid (H ₂ CO ₃)
ŕ	acetic acid
ŕ	antimony (III) chloride
	calcium hydroxide
20)	calcium phosphate