

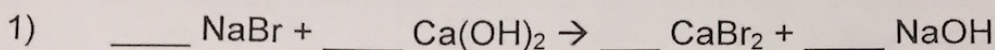
Worksheet: Writing Equations

Write equations for the following reactions:

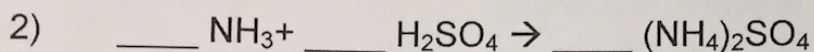
- 1) The reaction of ammonia with iodine to form nitrogen triiodide (NI_3) and hydrogen gas.
- 2) The combustion of propane (C_3H_8).
- 3) The incomplete combustion of propane.
- 4) The reaction of nitric acid with potassium hydroxide.
- 5) The reaction of copper (II) oxide with hydrogen to form copper metal and water.
- 6) The reaction of iron metal with oxygen.
- 7) The complete combustion of 2,2-dimethylpropane (C_5H_{12}) in oxygen.
- 8) The reaction of AlBr_3 with $\text{Mg}(\text{OH})_2$.
- 9) The decomposition of hydrogen peroxide to form water and oxygen.
- 10) The reaction of ammonia with sulfuric acid.

Six Types of Chemical Reaction Worksheet

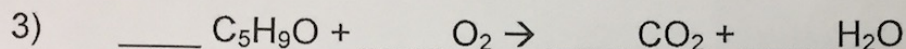
Balance the following reactions and indicate which of the six types of chemical reaction are being represented:



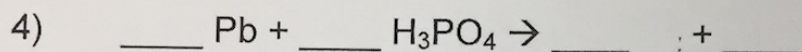
Type of reaction: _____



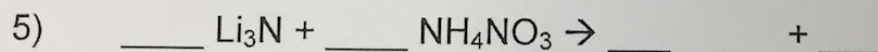
Type of reaction: _____



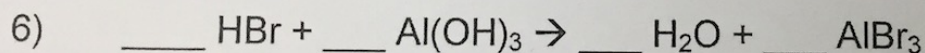
Type of reaction: _____



Type of reaction: _____



Type of reaction: _____



Type of reaction: _____

7) What's the main difference between a double displacement reaction and an acid-base reaction?

8) Combustion reactions always result in the formation of water. What other types of chemical reaction may result in the formation of water? Write examples of these reactions on the opposite side of this paper.