Classifying and Predicting Chemical Equations

Write balanced chemical equations (with phases) for the following reactions. Use letters (A-G) to indicate the type of reaction.

- A. Synthesis
- B. Decomposition
- C. Single-Replacement (cationic)
- D. Single-Replacement (anionic)
- E. Double-Replacement (neutralization)
- F. Double-Replacement (precipitation)
- G. Combustion

1.
$$C_5H_{12}(g) + O_2(g) \rightarrow$$

2.
$$PbCl_2(aq) + (NH_4)_3PO_4(aq) \rightarrow$$

3.
$$Br_2(I) + Nal(aq) \rightarrow$$

5. Mg (s) +
$$O_2$$
 (g) \rightarrow

6. LiOH (aq) +
$$H_2SO_4$$
 (aq) \rightarrow