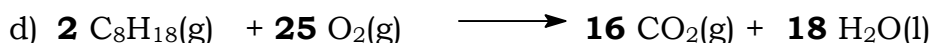
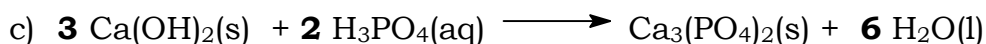
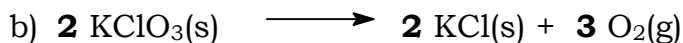
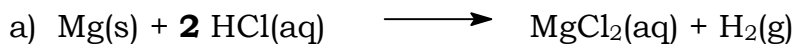
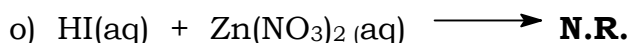
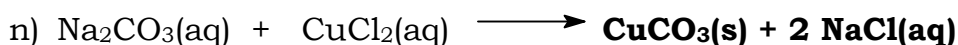
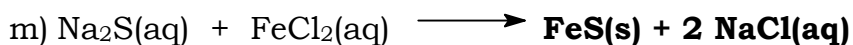
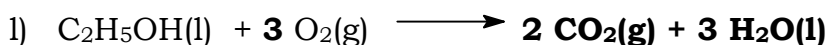
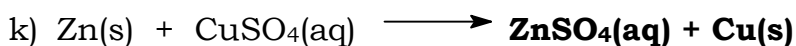
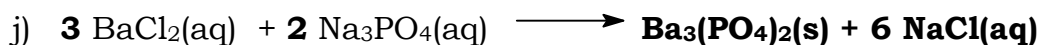
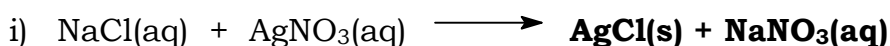
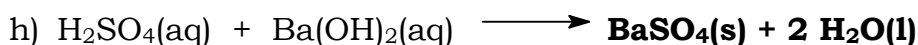
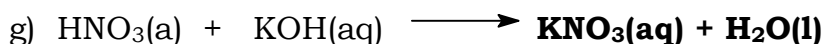
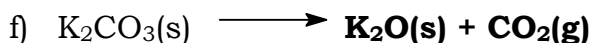
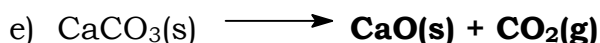
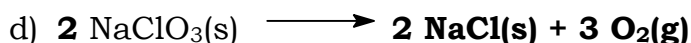
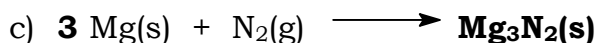
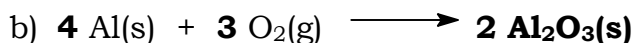
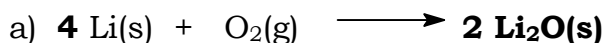


1) Balance the following reactions:

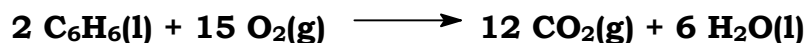


2) Complete and balance the following reactions:

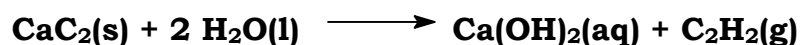


3) Write balanced equations to represent the following reactions:

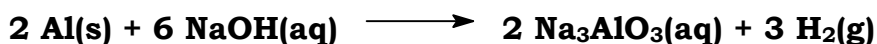
a) Benzene, C<sub>6</sub>H<sub>6</sub>, burns in air.



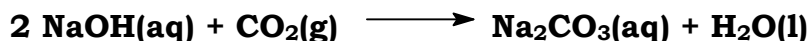
b) Calcium carbide, CaC<sub>2</sub>, reacts with water to give calcium hydroxide and acetylene, C<sub>2</sub>H<sub>2</sub>.



c) Aluminum dissolves in sodium hydroxide solution with the release of hydrogen gas and the formation of sodium aluminate, Na<sub>3</sub>AlO<sub>3</sub>.



d) Sodium hydroxide reacts with atmospheric CO<sub>2</sub>(g) to form sodium carbonate and water.



4) Write the net ionic equations for reactions of **1 a** and **2 ( g, h, i, j, k, m, and n)**

