Determine the type of rxn, and write the balanced equation

- a. Aluminum metal is oxidized by oxygen (from the air) to form aluminum oxide.
- b. Sodium oxide reacts with carbon dioxide to form sodium carbonate.
- c. Calcium metal reacts with water to form calcium hydroxide and hydrogen gas.
- d. Potassium nitrate decomposes to form potassium nitrite and oxygen.
- e. Barium metal reacts with Iron (III) sulfate to produce barium sulfate and iron metal.
- f. Barium chloride reacts with sodium sulfate to produce barium sulfate and sodium chloride.
- g. Bismuth(III)oxide and zinc metal react to produce zinc(II)oxide and bismuth metal.
- h. Calcium metal reacts with phosphorus to produce calcium phosphide.

i.	Copper metal reacts with sulfuric acid and water to produce copper sulfate pentahydrate and
	sulfur dioxide.
j.	The combustion of decane.
k.	The combustion of pamoic acid ( $C_{23}H_{16}O_4$ ).
1.	A solution of hydrochloric acid reacts with a solid calcium bicarbonate to produce water, carbon
	dioxide, and calcium chloride.
	dioxide, and emeran emoride.
m.	A solution of acetic acid reacts with solid iron (II) hydroxide.
n.	hydrofluoric acid reacts with sodium hydroxide.