REACTIONS OF PERIOD 3 OXIDES

Write a balanced equation for these reactions of period 3 oxides.

1	magnesium oxide + sulfuric acid **$MgO + H_2SO_4 \rightarrow MgSO_4 + H_2O$**
2	sulfur trioxide + sodium hydroxide **$SO_3 + 2NaOH \rightarrow Na_2SO_4 + H_2O$**
3	sodium oxide + water **$Na_2O + H_2O \rightarrow 2NaOH$**
4	sodium oxide + nitric acid **$Na_2O + 2HNO_3 \rightarrow 2NaNO_3 + H_2O$**
5	phosphorus oxide + sodium hydroxide **$P_4O_{10} + 12NaOH \rightarrow 4Na_3PO_4 + 6H_2O$**
6	sulfur dioxide + potassium hydroxide **$SO_2 + 2KOH \rightarrow K_2SO_3 + H_2O$**
7	aluminium oxide + nitric acid **$Al_2O_3 + 6HNO_3 \rightarrow 2Al(NO_3)_3 + 3H_2O$**
8	phosphorus oxide + water **$P_4O_{10} + 6H_2O \rightarrow 4H_3PO_4$**
9	silicon dioxide + sodium hydroxide **$SiO_2 + 2NaOH \rightarrow Na_2SiO_3 + H_2O$**
10	aluminium oxide + sodium hydroxide **$Al_2O_3 + 2NaOH + 3H_2O \rightarrow 2NaAl(H_2O)_2(OH)_4$**
11	sulfur dioxide + sodium oxide **$SO_2 + Na_2O \rightarrow Na_2SO_3$**
12	magnesium oxide + phosphorus oxide **$6MgO + P_4O_{10} \rightarrow 2Mg_3(PO_4)_2$**