

Balance each of the following equations.

1. $\text{Al} + \text{Cl}_2 \rightarrow \text{AlCl}_3$
2. $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$
3. $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}_2$
4. $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
5. $\text{N}_2 + \text{O}_2 \rightarrow \text{NO}_2$
6. $\text{O}_2 + \text{F}_2 \rightarrow \text{OF}_2$
7. $\text{Zn} + \text{O}_2 \rightarrow \text{ZnO}$
8. $\text{Cu}_2\text{S} + \text{O}_2 \rightarrow \text{Cu}_2\text{O} + \text{SO}_2$
9. $\text{N}_2\text{H}_4 + \text{O}_2 \rightarrow \text{N}_2 + \text{H}_2\text{O}$
10. $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
11. $\text{NO}_2 + \text{H}_2\text{O} \rightarrow \text{HNO}_3 + \text{NO}$
12. $\text{CaCO}_3 + \text{NaCl} \rightarrow \text{Na}_2\text{CO}_3 + \text{CaCl}_2$
13. $\text{Ag} + \text{HNO}_3 \rightarrow \text{NO}_2 + \text{AgNO}_3 + \text{H}_2\text{O}$
14. $\text{NCl}_3 \rightarrow \text{N}_2 + \text{Cl}_2$
15. $\text{NH}_3 \rightarrow \text{N}_2 + \text{H}_2$
16. $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_2$
17. $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$
18. $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
19. $\text{NH}_3 + \text{O}_2 \rightarrow \text{N}_2 + \text{H}_2\text{O}$
20. $\text{C}_{25}\text{H}_{52} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

Balance each of the following equations.

1. $\text{KNO}_3 \rightarrow \text{KNO}_2 + \text{O}_2$
2. $\text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbO} + \text{NO}_2 + \text{O}_2$
3. $\text{P}_4 + \text{I}_2 \rightarrow \text{PI}_3$
4. $\text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$
5. $\text{Br}_2 + \text{KI} \rightarrow \text{I}_2 + \text{KBr}$
6. $\text{Bi}_2\text{O}_3 + \text{H}_2 \rightarrow \text{Bi} + \text{H}_2\text{O}$
7. $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$
8. $\text{CaO} + \text{C} \rightarrow \text{CaC}_2 + \text{CO}_2$
9. $\text{H}_2\text{SO}_4 + \text{K}_2\text{CO}_3 \rightarrow \text{K}_2\text{SO}_4 + \text{H}_2\text{O} + \text{CO}_2$
10. $\text{NH}_4\text{NO}_2 \rightarrow \text{N}_2 + \text{H}_2\text{O}$
11. $\text{Mg} + \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
12. $\text{Ca} + \text{N}_2 \rightarrow \text{Ca}_3\text{N}_2$
13. $\text{NH}_4\text{NO}_3 \rightarrow \text{N}_2\text{O} + \text{H}_2\text{O}$
14. $\text{BiCl}_3 + \text{H}_2\text{S} \rightarrow \text{Bi}_2\text{S}_3 + \text{HCl}$
15. $\text{C}_4\text{H}_{10} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
16. $\text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
17. $\text{Al}_4\text{C}_3 + \text{H}_2\text{O} \rightarrow \text{Al}(\text{OH})_3 + \text{CH}_4$
18. $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$
19. $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$
20. $\text{NO}_2 + \text{H}_2\text{O} \rightarrow \text{HNO}_3 + \text{NO}$