



DPP # 2 (QUESTION)

- Q. Balance the following equations by adding coefficients before the elements or compounds.
- 1. $C + O_2 \longrightarrow CO_2$
- 2. $C + O_2 \longrightarrow CO$
- 3. $H_2 + O_2 \longrightarrow H_2O$
- 4. Na + $Cl_2 \longrightarrow NaCl$
- $\mathbf{5.} \qquad \mathbf{P} + \mathbf{O}_2 \longrightarrow \mathbf{P}_2 \mathbf{O}_5$
- 6. $S_8 + O_2 \longrightarrow SO_3$
- 7. $H_2O + O_2 \longrightarrow H_2O_2$
- 8. $N_2 + H_2 \longrightarrow NH_3$
- 9. $C + H_2 \longrightarrow C_3H_8$
- 10. $C + H_2 \longrightarrow C_4H_6$
- 11. $O_3 \longrightarrow O_2$
- 12. $C_3H_8 + O_2 \longrightarrow CO_2 + H_2O$
- 13. $C_2H_6 + O_2 \longrightarrow CO_2 + H_2O$
- **14.** $C_4H_8 + O_2 \longrightarrow CO_2 + H_2O$
- 15. $C_xH_y + O_2 \longrightarrow CO_2 + H_2O$
- 16. $PCl_5 + H_2O \longrightarrow H_3PO_4 + HCl$
- 17. NaOH + HCl \longrightarrow NaCl + H₂O
- 18. $KOH + H_2CO_3 \longrightarrow K_2CO_3 + H_2O$
- 19. $Ba(OH)_2 + H_2SO_4 \longrightarrow BaSO_4 + H_2O$
- **20.** $KOH + H_3PO_4 \longrightarrow K_3PO_4 + H_2O$





21.
$$Ba(OH)_2 + H_3PO_4 \longrightarrow Ba_3(PO_4)_2 + H_2O$$

22.
$$Pb(OH)_4 + Cu_2O \longrightarrow PbO_2 + CuOH$$

23.
$$NaNO_3 + PbO \longrightarrow Pb(NO_3)_2 + Na_2O$$

24.
$$KBr + Fe(OH)_3 \longrightarrow KOH + FeBr_3$$

25.
$$ZnS + AlP \longrightarrow Zn_3P_2 + Al_2S_3$$

26.
$$CaSiO_3 + HF \longrightarrow SiF_4 + CaF_2 + H_2O$$

27.
$$Cl_2 + Ca(OH)_2 \longrightarrow Ca(ClO_3)_2 + CaCl_2 + H_2O$$

28.
$$Ca(ClO_3)_2 + Na_2SO_4 \rightarrow CaSO_4 + NaClO_3$$

29.
$$P_4S_3 + O_2 \longrightarrow P_4O_{10} + SO_2$$

30.
$$KMnO_4 + HCl \longrightarrow KCl + MnCl_2 + H_2O + Cl_2$$