Quiz 5.1 – Balancing Chemical Reactions

Name: Key

Balance the following chemical reactions

$1\ N_2(g) + 3\ H_2(g) \longrightarrow 2\ NH_3(g)$

$2\ C_2H_2(g) + 5\ O_2(g) \longrightarrow 4\ CO_2(g) + 2\ H_2O(g)$

$2\ H_3AsO_4(aq) \longrightarrow 1\ As_2O_5(aq) + 3\ H_2O(l)$

$1\ P_4(s) + 5\ O_2(g) \longrightarrow 2\ P_2O_5$

$4\ FeS_2(s) + 11\ O_2(g) \longrightarrow 2\ Fe_2O_3(s) + 8\ SO_2(g)$

$1\ C_3H_8(g) + 5\ O_2(g) \longrightarrow 3\ CO_2(g) + 4\ H_2O(g)$

$2\ C_3H_8(g) + 7\ O_2(g) \longrightarrow 6\ CO(g) + 8\ H_2O(g)$

$2\ Na_2O_2(s) + 2\ H_2O(l) \longrightarrow 4\ NaOH(aq) + 1\ O_2(g)$

$1\ Zn(s) + 2\ HCl(aq) \longrightarrow 1\ ZnCl_2(aq) + 1\ H_2(g)$