Chemistry 11 - Completing, Balancing & Classifying Chemical Equations

Complete, balance and classify the following equations as synthesis, decomposition, single replacement, double replacement, neutralization or combustion.
(3 marks each = 51 marks)

a. Ca + $Zn(NO_3)_2 \rightarrow$

Reaction Type _____

b. $C_2H_6 + O_2 \rightarrow$

Reaction Type _____

c. $Na_2SO_4 + Ca(NO_3)_2 \rightarrow$

Reaction Type _____

d. $CuSO_4 \cdot H_2O \rightarrow$

Reaction Type _____

e. $Cl_2 + KI \rightarrow$

Reaction Type _____

f. Al + $Cl_2 \rightarrow$

Reaction Type _____

g. $Zn + Pb(ClO)_2 \rightarrow$

Reaction Type _____

h. CoI_3 + $(NH_4)_2CrO_4$ \rightarrow

Reaction Type _____

i. $C_{10}H_{21}OH + O_2 \rightarrow$

Reaction Type _____

j. $Ba(OH)_2 + HNO_3 \rightarrow$

Reaction Type _____

k. Cu + $O_2 \rightarrow$

(Assume combining capacity of Cu is 2+)

Reaction Type _____

1. $\text{Li}_3\text{AsO}_4 \rightarrow$

Reaction Type _____

m. RbOH + H_3PO_4 \rightarrow

Reaction Type _____

n. $Fe(NO_3)_2 + Na_3PO_4 \rightarrow$

Reaction Type _____

o. Al + $H_2SO_4 \rightarrow$

Reaction Type _____

p. $BeSO_4 + AgNO_3 \rightarrow$

Reaction Type _____

q. $MnSO_4 + 6H_2O \rightarrow$

Reaction Type _____