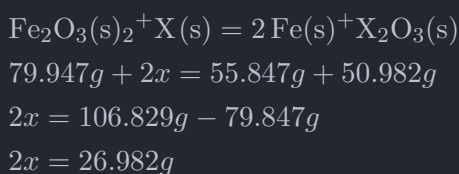


# Ap Chem Summer Assignment #3

lol u thought you would get my name

August 21, 2021

## 1 The following reaction was performed, Identify element X.



Since the atomic weight of 2Fe is the same as the given weight (55.847g), the atomic weight of 2x is 26.982g or Aluminium (Al)

## 2 Balance the following equations

1.  $2\text{AgI} + \text{Na}_2\text{S} \rightarrow 2\text{Ag}_2\text{S} + \text{NaI}$
2.  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7 \rightarrow \text{Cr}_2\text{O}_3 + \text{N}_2 + \text{H}_2\text{O}$
3.  $\text{Na}_3\text{PO}_4 + \text{HCl} \rightarrow 3\text{NaCl} + \text{H}_3\text{PO}_4$
4.  $\text{TiCl}_4 + \text{H}_2\text{O} \rightarrow \text{TiO}_2 + \text{HCl}$
5.  $\text{Ba}_3\text{N}_2 + \text{H}_2\text{O} \rightarrow 3\text{Ba}(\text{OH})_2 + \text{NH}_3$
6.  $3\text{HNO}_2 + \text{HNO}_3 \rightarrow 2\text{NO} + \text{H}_2\text{O}$