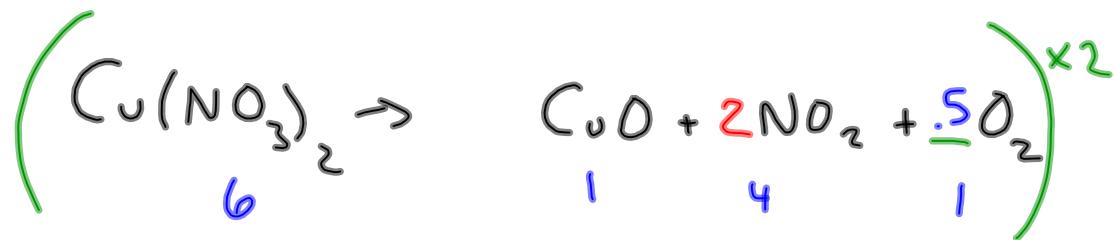
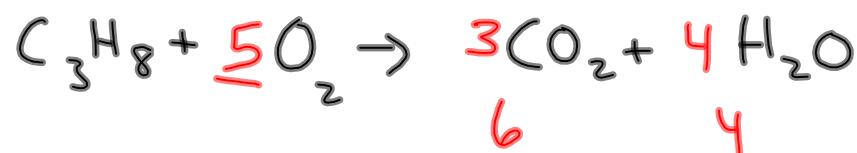


Review Booklet (white)

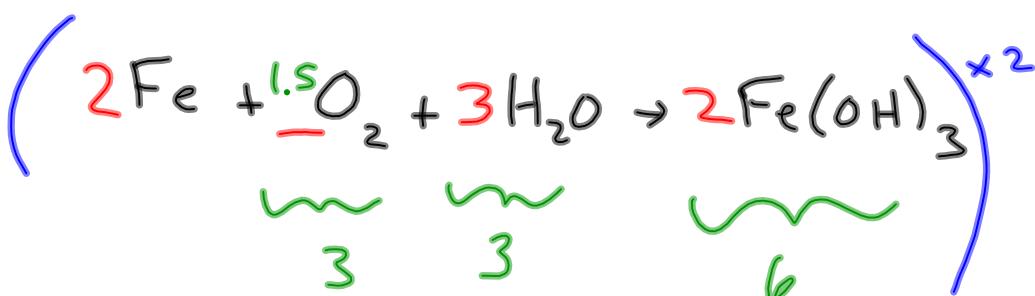
II-1



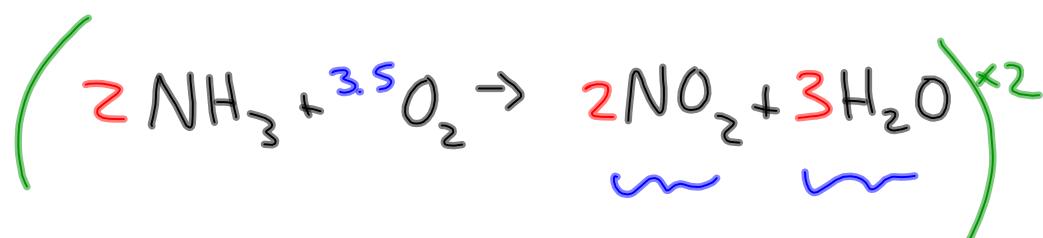
II-2



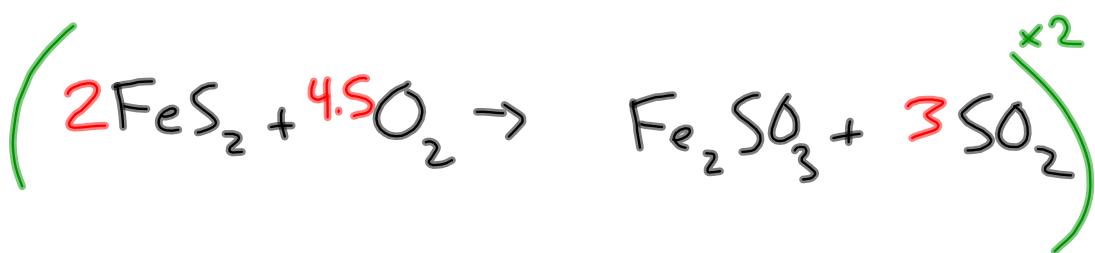
II-3



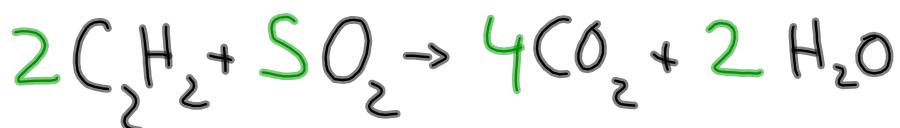
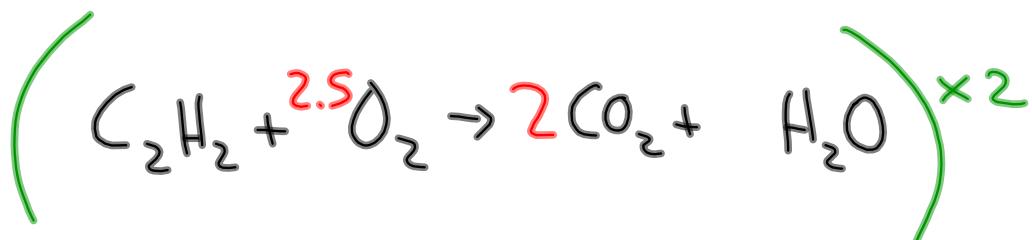
II-4



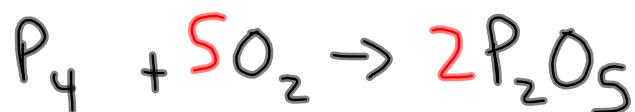
II-5



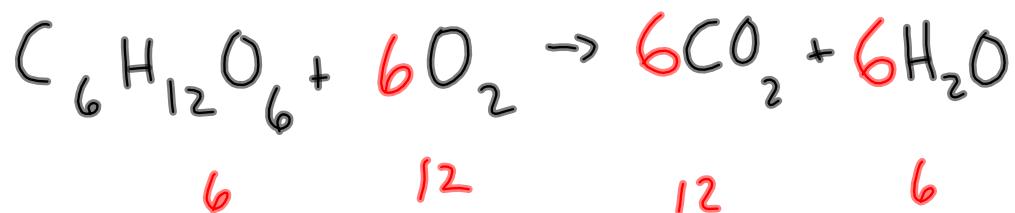
II-6



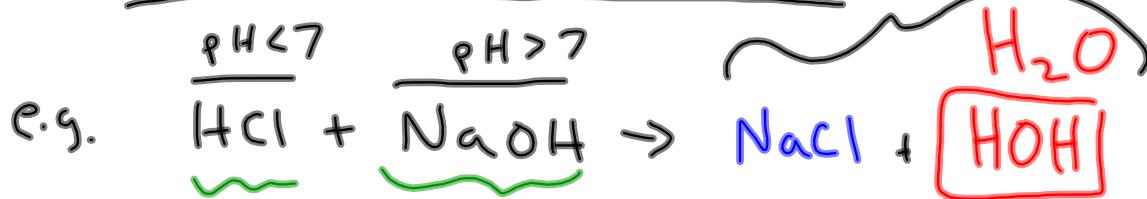
II-7



II-8

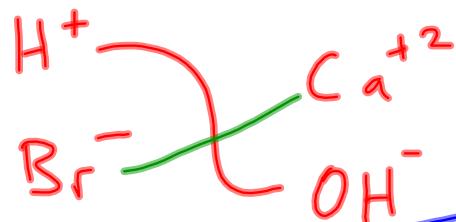
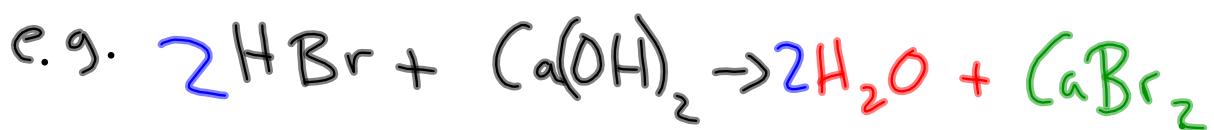
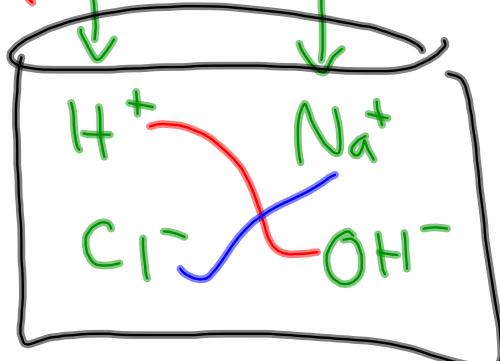


Acid-Base Neutralization $\text{pH} = 7$

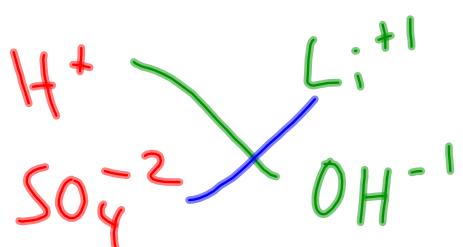


Acids + bases are both ionic, so they'll both dissociate in aqueous solution.

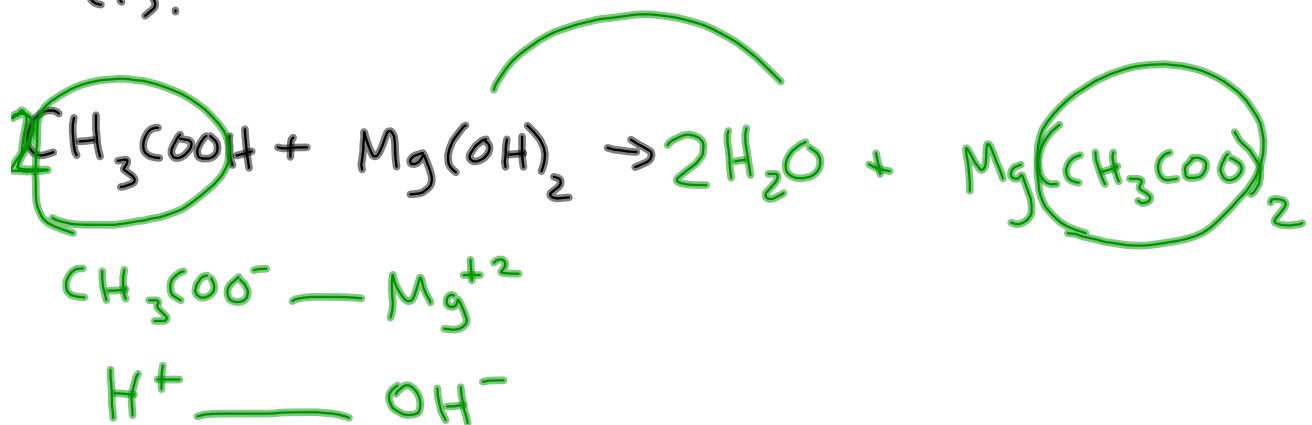
Trade
Partners



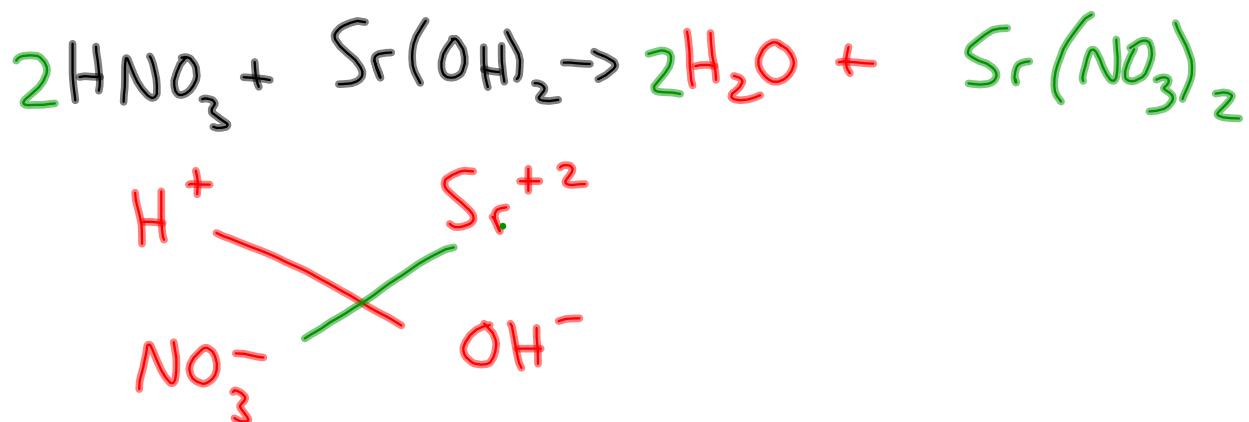
e.g.



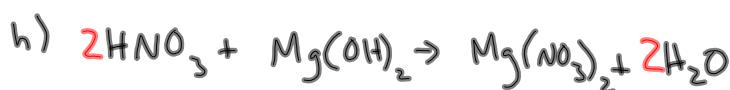
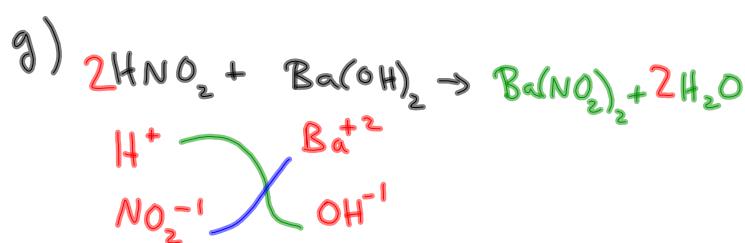
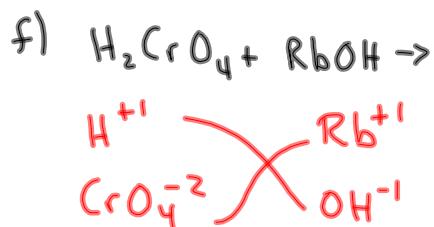
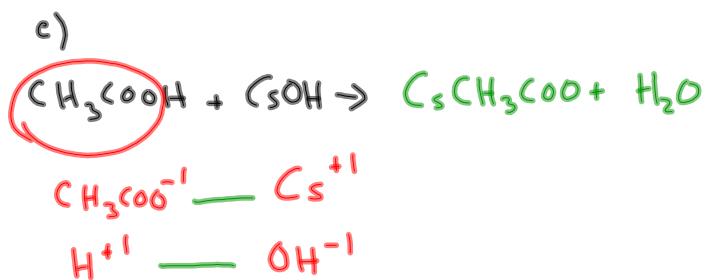
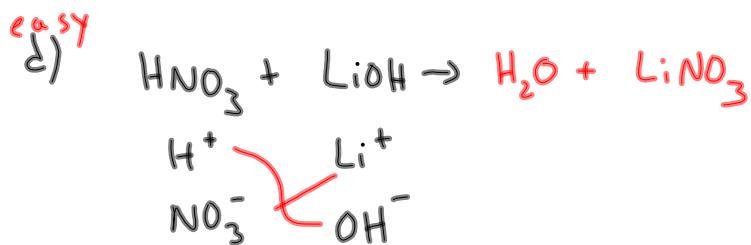
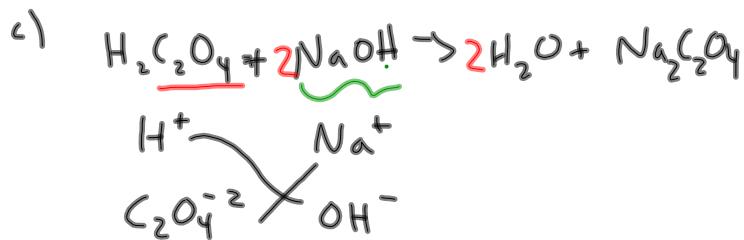
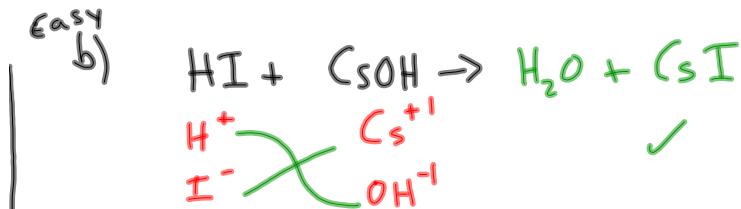
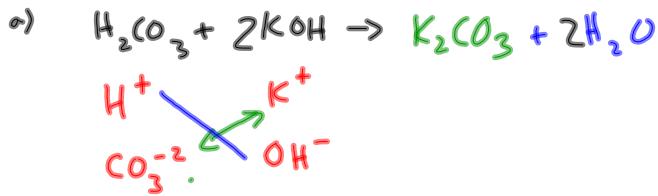
e.g.



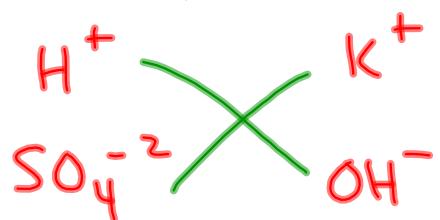
e.g



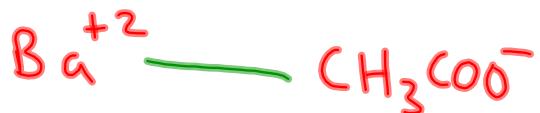
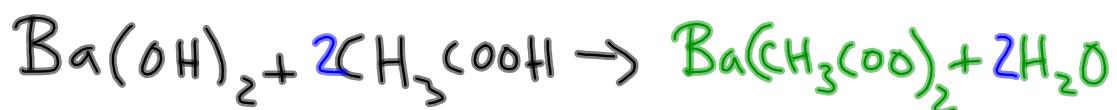
Yêu cầu:



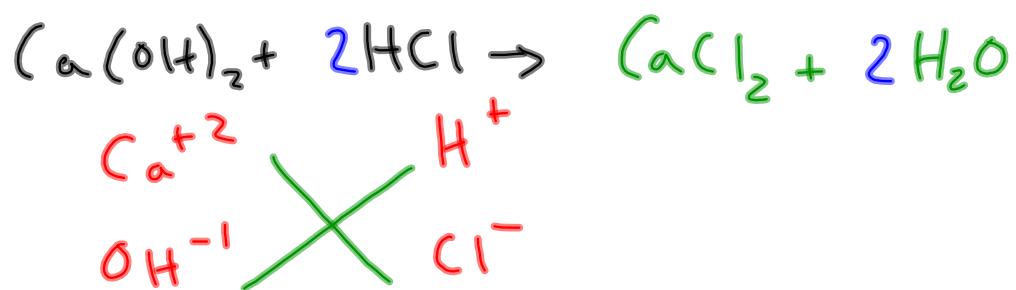
(i)



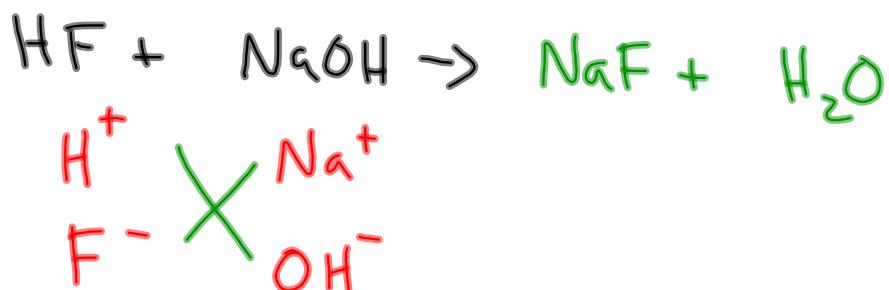
(j)



k)



l)



Chemical Stoichiometry

22.19 mol

①



Balance eqn (1 mark)

400 g \rightarrow convert to moles

The coefficients give you the mole : mole ratios for amounts of reactants + products

e.g. The amount of H_2O produced will always be twice the amount CH_4 used (in moles).

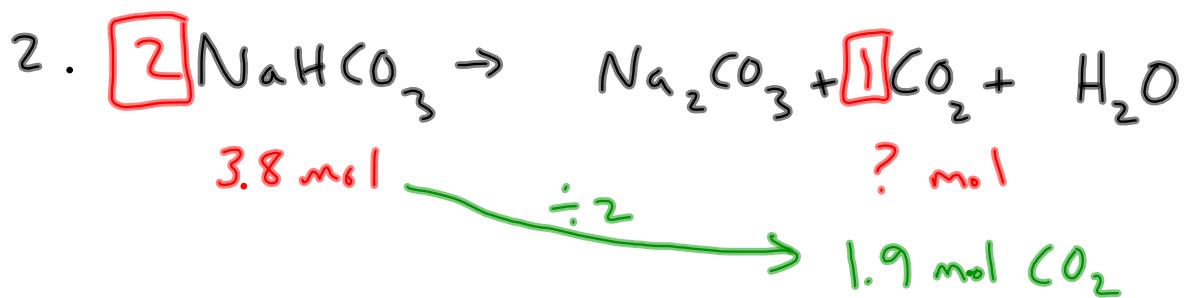
Convert 400 g H_2O into moles:

$$400 \text{ g H}_2\text{O} \times \frac{1 \text{ mol}}{18.02 \text{ g}} = 22.19 \text{ mol H}_2\text{O}$$

produced

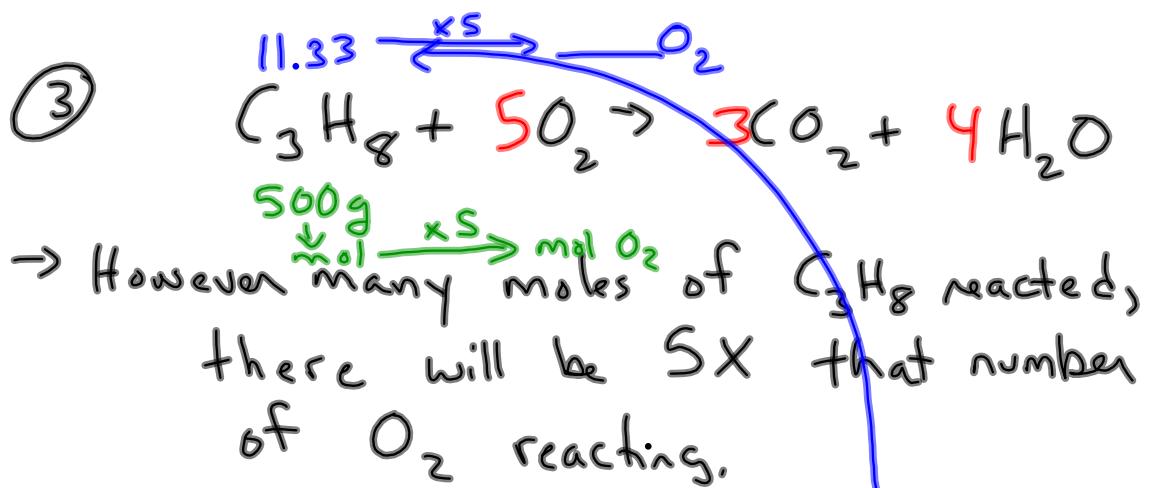
$$22.19 \text{ mol} \div 2$$

$$= 11.1 \text{ mol CH}_4 \text{ used.}$$



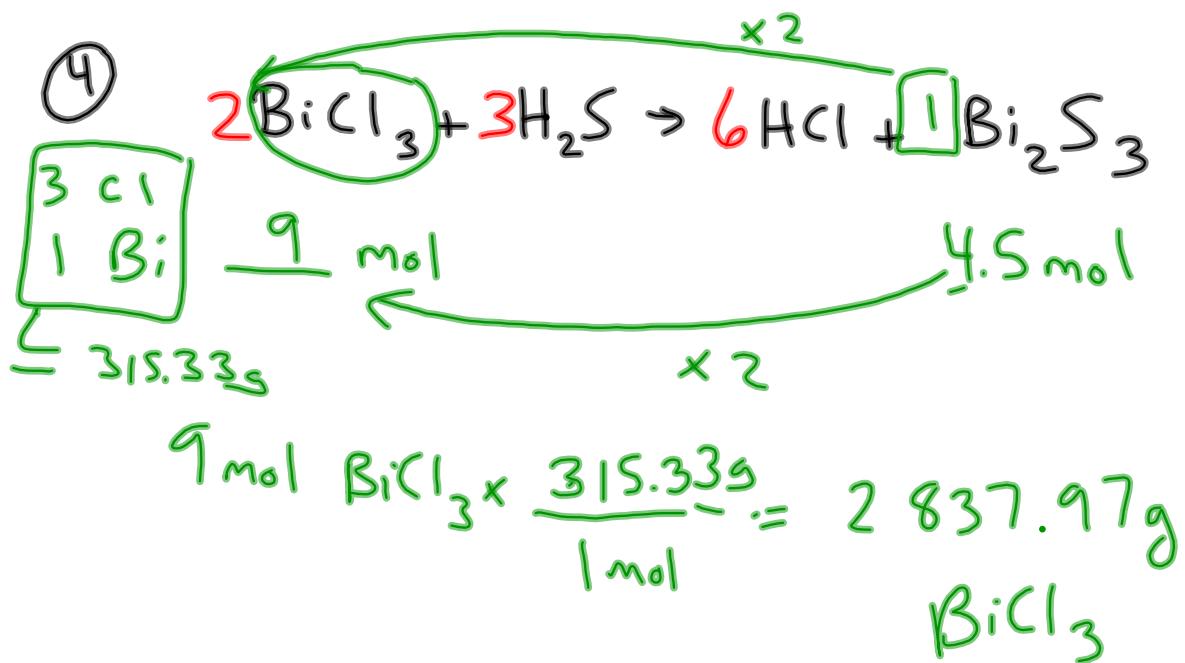
$$1.9 \text{ mol CO}_2 \times \frac{44.01 \text{ g}}{1 \text{ mol}}$$

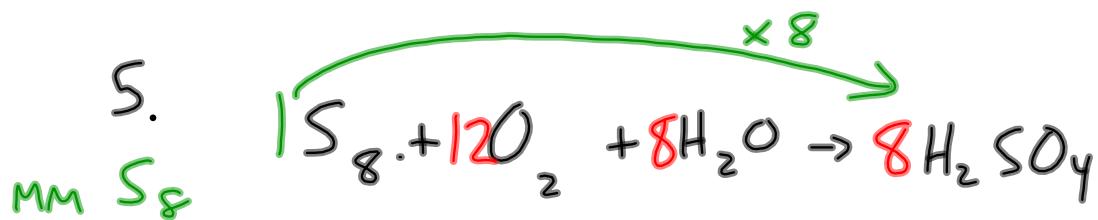
$\boxed{= 83.6 \text{ g CO}_2}$



$$500\text{g C}_3\text{H}_8 \times \frac{1\text{mol}}{44.11\text{g}} = 11.33 \text{ mol C}_3\text{H}_8$$

$$11.33 \text{ mol} \times S = 56.6 \text{ mol O}_2$$





$$\frac{460 \text{ g } S_8 \times 1 \text{ mol}}{256.48 \text{ g}} = 1.79 \text{ mol } S_8$$

$$1.79 \text{ mol } S_8 \times 8 = \boxed{14.34 \text{ mol } H_2SO_4}$$

