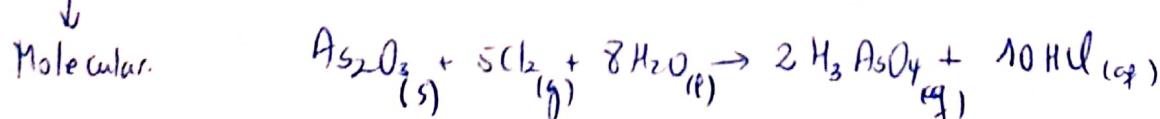
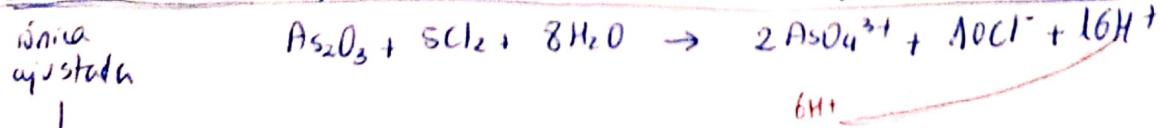
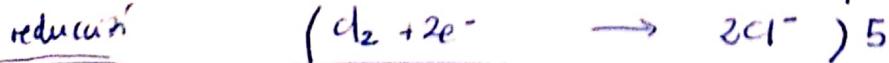
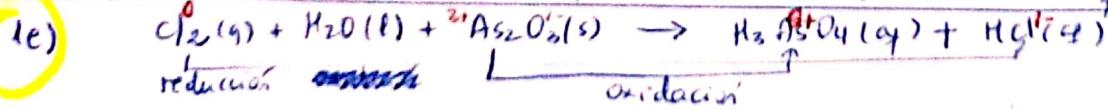
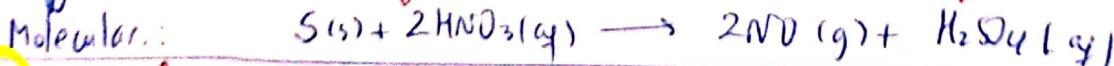
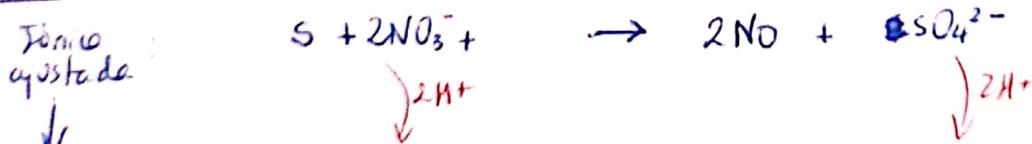
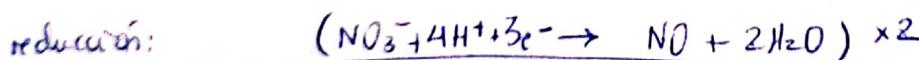
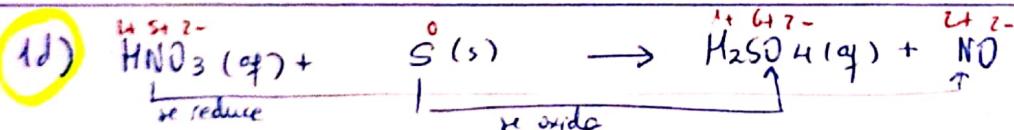
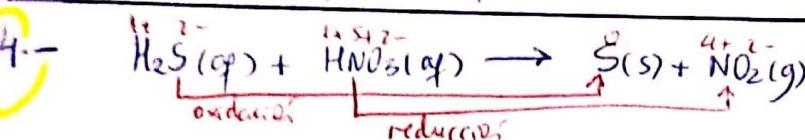
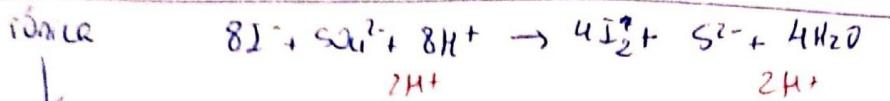
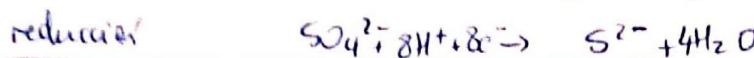
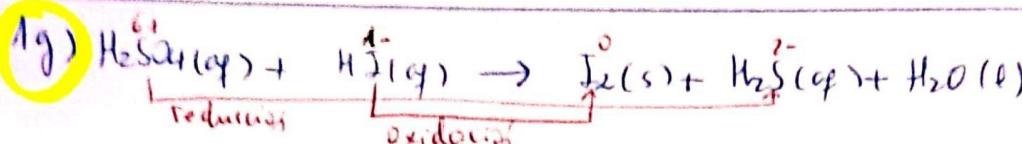
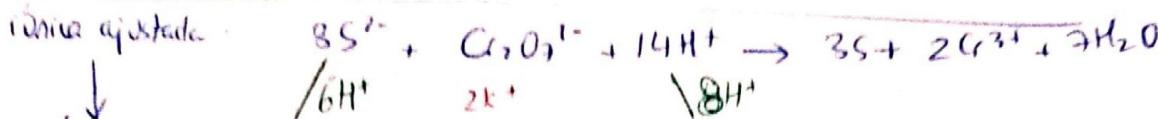
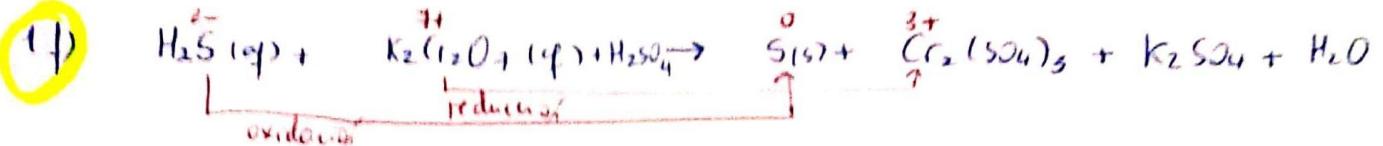
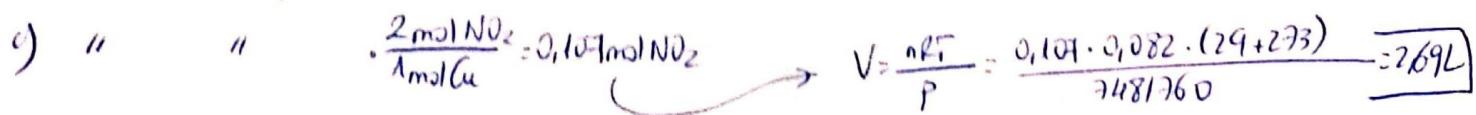
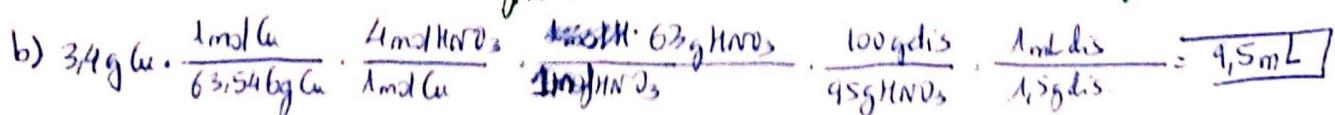
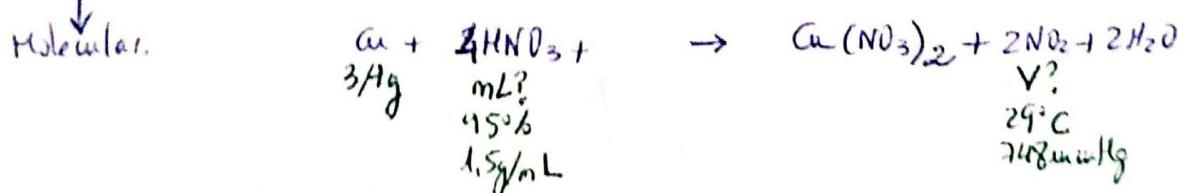
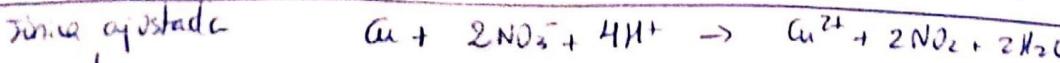
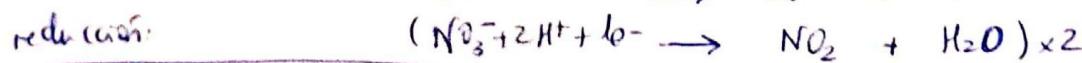
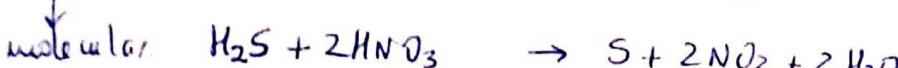
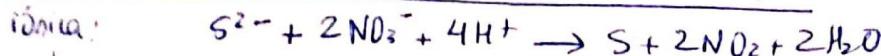
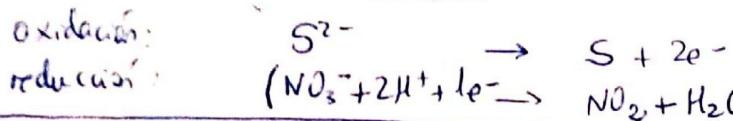


1c)

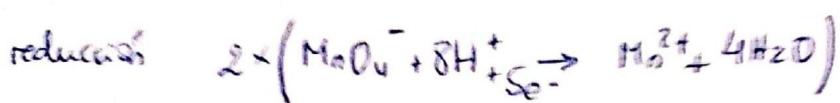
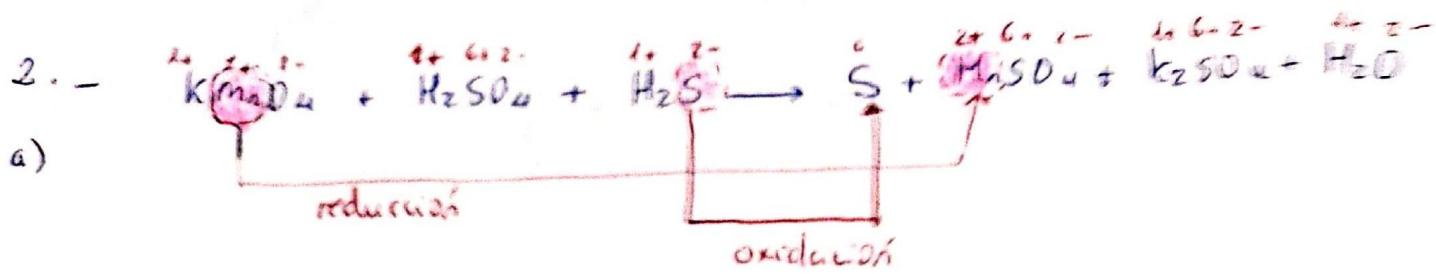




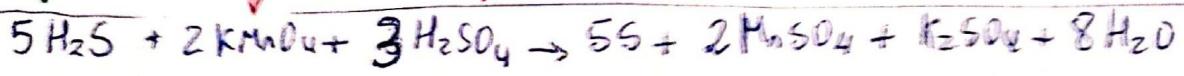
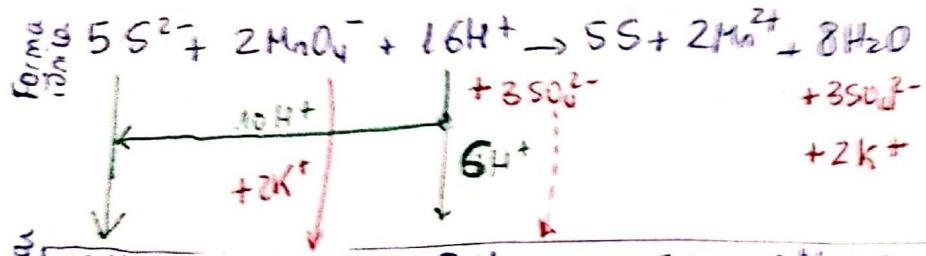
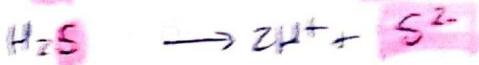
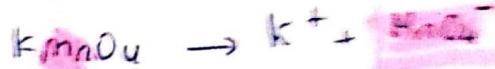
Se oxida el S^{2-} ("H₂S") pg aumenta su n.o. Es el reductor
 Se reduce el NO_3^- ("HNO₃") pg disminuye su n.o. Es el oxidante



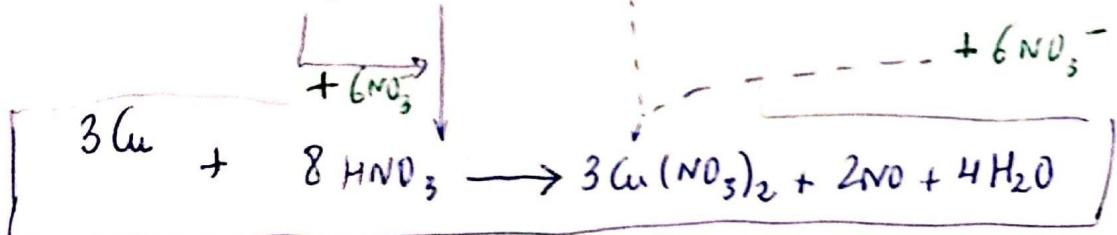
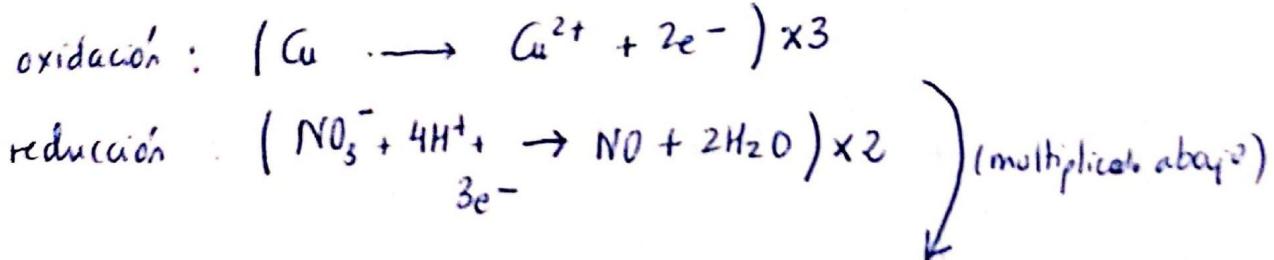
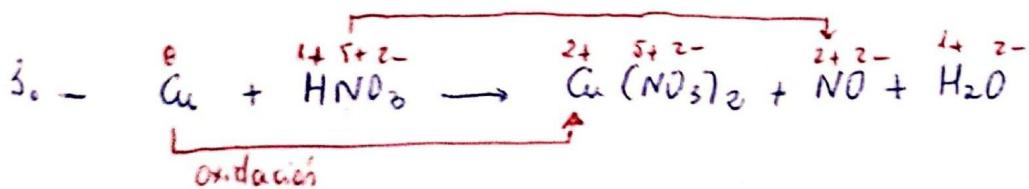
Ejercicios 2, 3, 5 y 6 de Bava



CHULETA para ver cuáles son las formas iónicas que tengo que considerar.

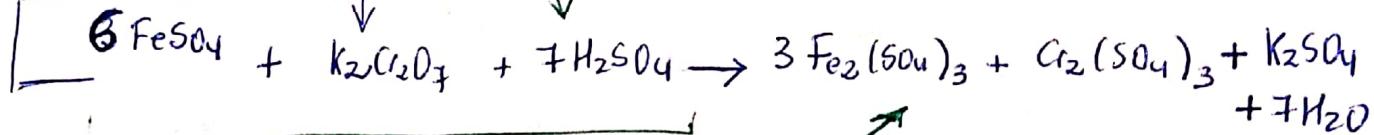
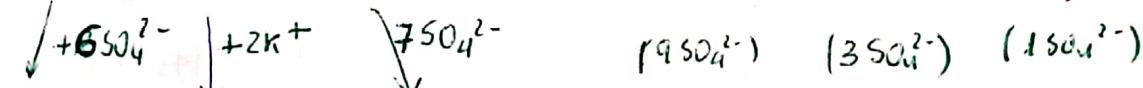
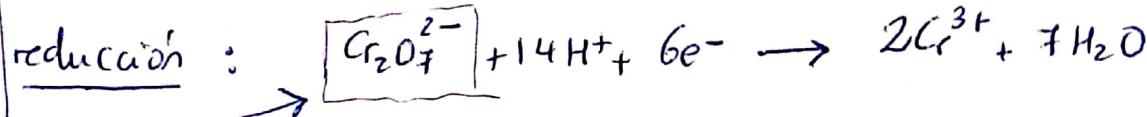
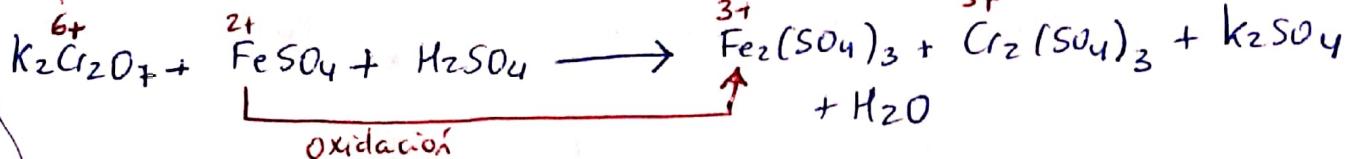


b) c) MnO_4^- se reduce por lo que es el OXIDANTE
 S^{2-} se oxida " " " " " REDUCTOR

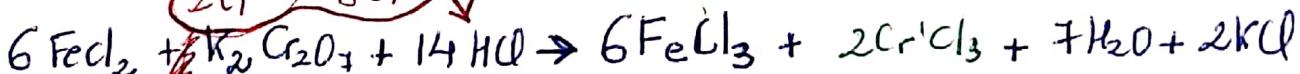
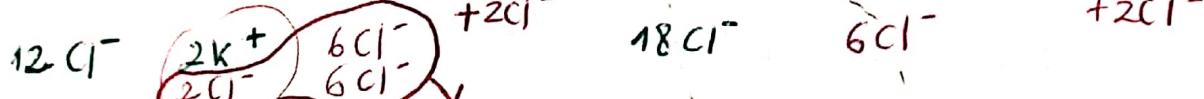
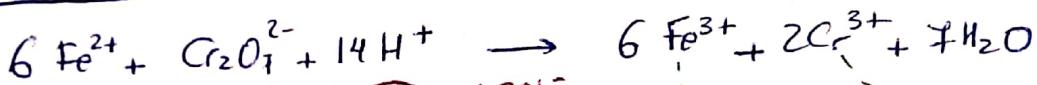
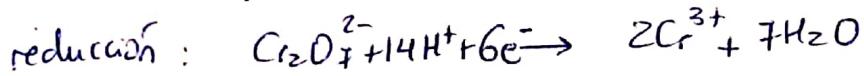
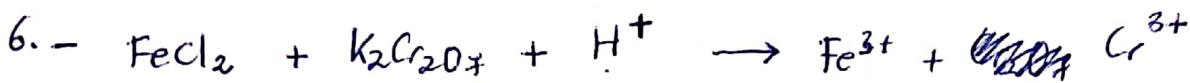




reducción



He sumado un total de $\frac{13\text{SO}_4^{2-}}{13}$ tienen que aparecer tb a la ducha



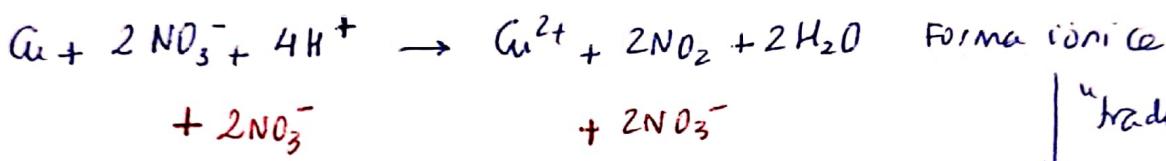
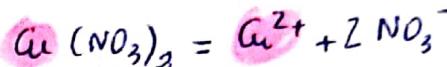
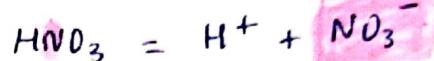
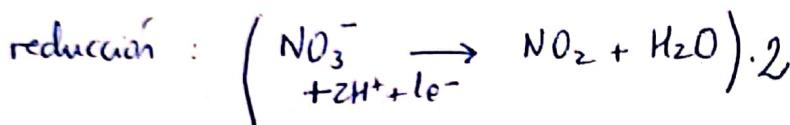
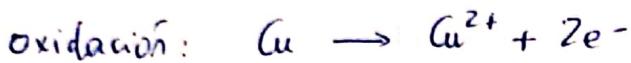
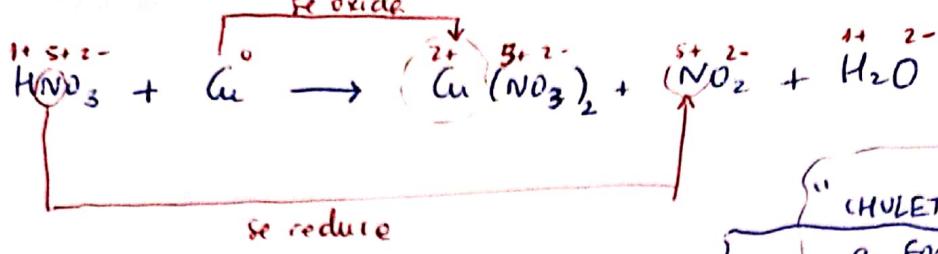
b) 0,1Ldis
~~0,35M~~
 ~~$64,4 \cdot 10^{-3}\text{L}$~~

$$64,4 \cdot 10^{-3}\text{Ldis.} \cdot \frac{0,35\text{ mol K}_2\text{Cr}_2\text{O}_7}{1\text{Ldis}} \cdot \frac{6\text{ mol FeCl}_2}{1\text{ mol K}_2\text{Cr}_2\text{O}_7} \leftarrow \frac{\text{mol}}{\text{vol}}$$

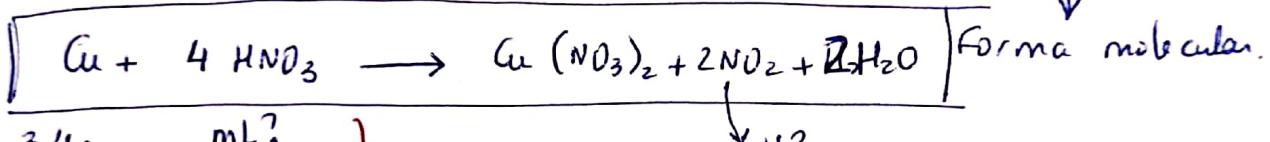
$$[\text{FeCl}_3] = \frac{0,1\text{ L}}{= 0,135\text{ M}}$$

Ejercicios 7, 9, 10 Baía

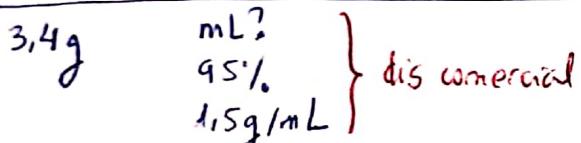
7.-
a)



"traducir"



b)



V?
29°C, 748 mmHg

$$\boxed{3,4 \text{ g Cu} \cdot \frac{1 \text{ mol Cu}}{63,55 \text{ g Cu}} \times \frac{4 \text{ mol HNO}_3}{1 \text{ mol Cu}} \times \frac{63 \text{ g HNO}_3}{1 \text{ mol HNO}_3} \times \frac{100 \text{ g dis com.}}{95 \text{ g HNO}_3} \cdot \frac{1 \text{ mL dis com}}{1,5 \text{ g dis}} = 9,5 \text{ mL}}$$

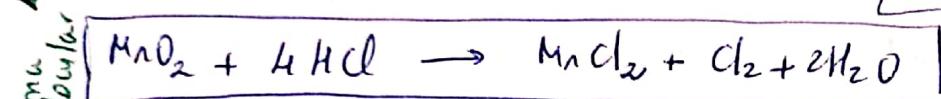
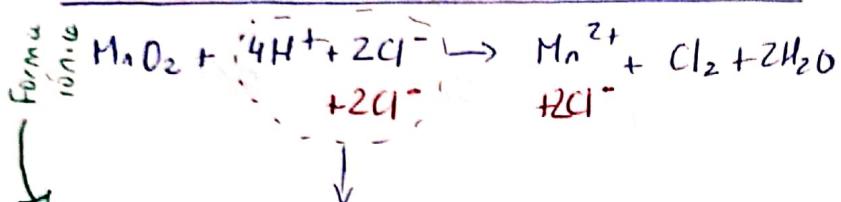
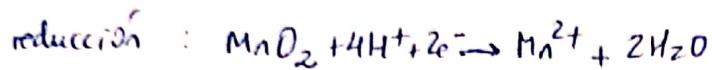
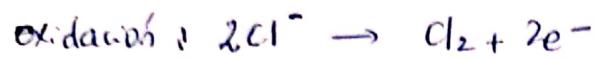
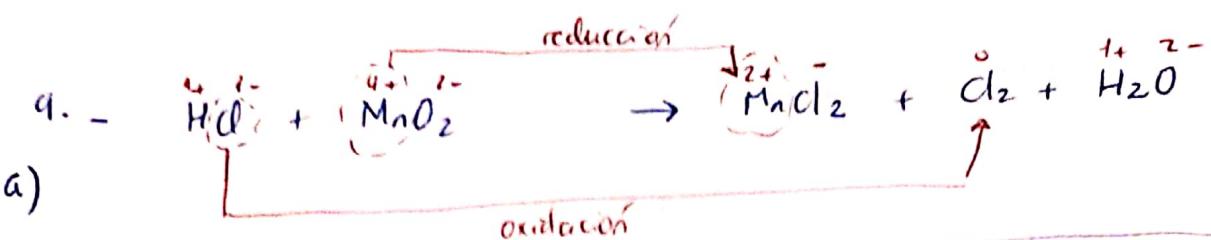
c)

$$\boxed{3,4 \text{ g Cu} \cdot \frac{1 \text{ mol Cu}}{63,55 \text{ g Cu}} \times \frac{2 \text{ mol NO}_2}{1 \text{ mol Cu}} = 0,107 \text{ mol NO}_2}$$

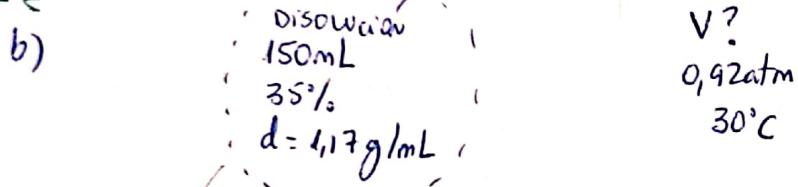
$$V = \frac{nRT}{P} = \frac{0,107 \text{ mol} \cdot 0,082 \frac{\text{atm L}}{\text{mol K}} \cdot (29 + 273) \text{ K}}{748 \text{ mmHg} / 760 \text{ mmHg/atm}}$$

$$\boxed{V = 2,69 \text{ L}}$$

En ambos apuntados
"arrancamos"
índice (Pasando
el dato a molar)



"CHULETA" para escribir las especies en forma iónica
 $\text{HCl} = \text{H}^+ + \text{Cl}^-$
 $\rightarrow \text{MnO}_2 = \text{óxido} = \text{LO DEJO TAL CUAL}$
 $\rightarrow \text{MnCl}_2 = \text{Mn}^{2+} + 2\text{Cl}^-$



PASO 1: Puedo
d datos a... V

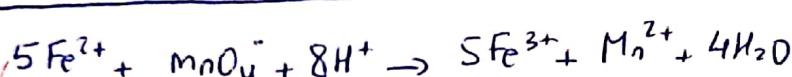
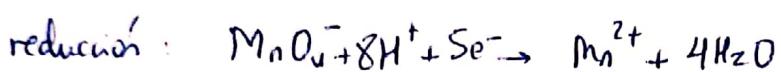
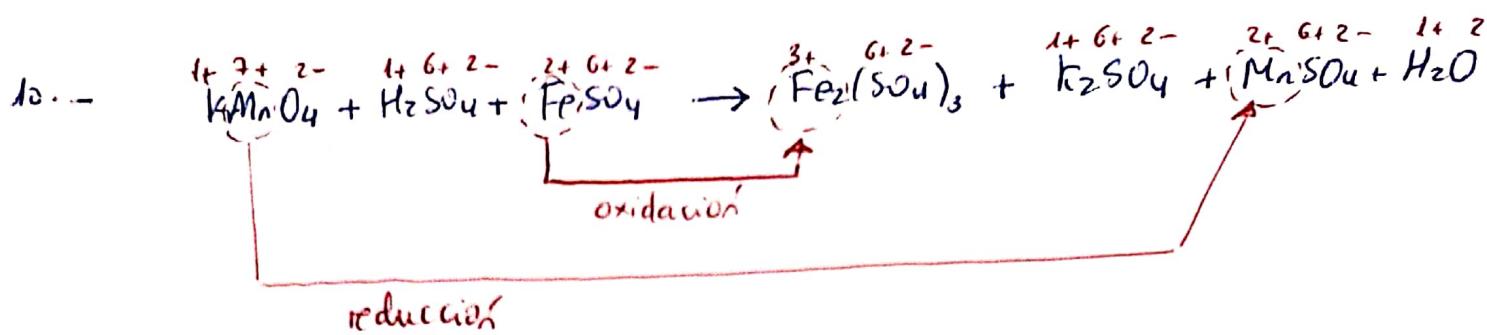
molar

$$150\text{ mL dis.} \cdot \frac{1,17\text{ gdis.}}{1\text{ mL dis.}} \cdot \frac{35\text{ g HCl}}{100\text{ g dis.}} \cdot \frac{1\text{ mol HCl}}{36,5\text{ g HCl}} \cdot \frac{1\text{ mol Cl}_2}{4\text{ mol HCl}} = 0,42\text{ mol Cl}_2$$

PASO 2: Aplico la estquimetría

PASO 3: Calcula lo que me piden

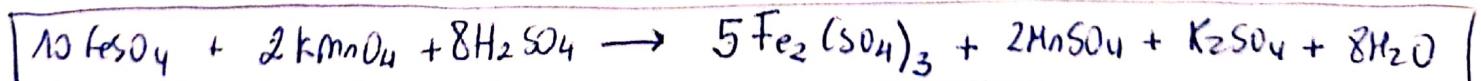
$$V = \frac{nRT}{P} = \frac{0,42\text{ mol} \cdot 0,082\text{ atmL/molK} \cdot (30+273)\text{ K}}{0,92\text{ atm}} = \underline{\underline{11,25\text{ L}}}$$



① Cada MnO_4^- necesita 1K^+

② PERD EN ESTE LADO, LOS K^+ que quedan, van a ir necesariamente de 2 en 2 (ya que tiene que aparecer K_2SO_4)

③ Por ello, multiplico la ecuación iónica por 2.



b) 2,40g V(cm^3)?
0,5M

① PASAR EL DATO A MOL

$$2,40\text{g FeSO}_4 \cdot \frac{1\text{mol FeSO}_4}{151,85\text{ g FeSO}_4} \cdot \frac{2\text{KMnO}_4}{10\text{ mol FeSO}_4} \cdot \frac{1\text{Ldis}}{0,5\text{mol KMnO}_4} \cdot \frac{1000\text{cm}^3}{1\text{Ldis}} = 6,3\text{cm}^3$$

② ESTEQUÍOMÉTRIA