

Exercis :

$$C_{1} = \frac{C_{2} c_{2} c_{2}}{V_{1}} \times V_{7}$$

$$= \frac{6.16^{-2} \times 100 \cdot 10^{-3}}{50 \cdot 10^{-3}}$$

$$S_2 \circ g^2 - + 2 \Box - \rightarrow \Box_2 + 2 \otimes g^2 -$$

$$+ : \circ \qquad M_1 \qquad M_2 \qquad \circ \qquad \circ$$

$$M_1-X$$
  $M_2-2X$   $X$   $2X$ 

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3) 
$$[S_2 o_8^2 -]_f = 10^{-2} \text{ moll} -1 \neq 0$$
  
 $\Rightarrow S_2 o_8^2 - \text{ or excel}$ 





$$xf = m_1 - m_1(s_2s_2)$$

5) le 
$$R = AT$$
 totale:  
 $Xf = X max = 5.10^{-3} mol$ 

52082- frenexcos et la Rº fo Tohole

J - fo limitant





$$\mathcal{M}(I^{-}) = M_{2} - 2xf = 0$$

$$\Rightarrow C_{2}V_{2} - 2xf = 0$$

$$\Rightarrow C_{2} = \frac{2xf}{V_{2}} = \frac{25.10^{5}}{50.10^{3}}$$

$$\Rightarrow C_{2} = 0.2 \text{ moRL-1}$$

7) be composition final:  
# M (
$$S_2O_8^{2-}$$
) =  $M_1 - Kf$ .  
M ( $S_2O_8^{2-}$ ) =  $C_1V_1 - Kf$ .  
M ( $S_2O_8^{2-}$ ) =  $O_1N_2 \times 50.10^{-3} - 5.10^{-3}$   
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on hien:



8) 
$$S_2 O_8^{2-} + 2I_{-}^{-} - S_2^{-}$$
  
 $C_1 = 9.12 \text{ moll}^{-1}$   $C_2 = 0.12 \text{ moll}^{-1} - S_2^{-}$   
 $V_1 = Som L$   $V_2 = Som L$ 

$$\begin{bmatrix} I - Jb = \frac{\Lambda^{\perp}}{M(I)} = \frac{\Lambda^{\perp}}{C^{3}\Lambda^{5} - 5\kappa^{\dagger}}$$





$$CI - \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} \cdot$$

Si C2 Jenient C3 alors xf change et si xf change alors [S2032-)p n'ss plus la même.

b) les reachfs sont dons les proportions (toechionnetripues

$$\frac{M_{o}(I^{-})}{2} = \frac{M_{o}(S_{2}O_{8}^{2}-)}{1}$$

$$\frac{C_3 V_2}{2} = \frac{C_1 V_1}{1}$$





$$C_{3} = \frac{2 C_{1} V_{1}}{V_{2}}$$

$$C_{3} = \frac{2 \cdot 0.12 \cdot 50.10^{-3}}{50.16^{-3}}$$

c3 = 0,24 mofl-

et 
$$\frac{m_0(I)}{2} = \frac{m_0(S_2O_3^2)}{1}$$

$$\Rightarrow S_2O_3^2 - 8t \text{ limitant}$$





























