

-			
	10 - 8 :	:	3:

3 :

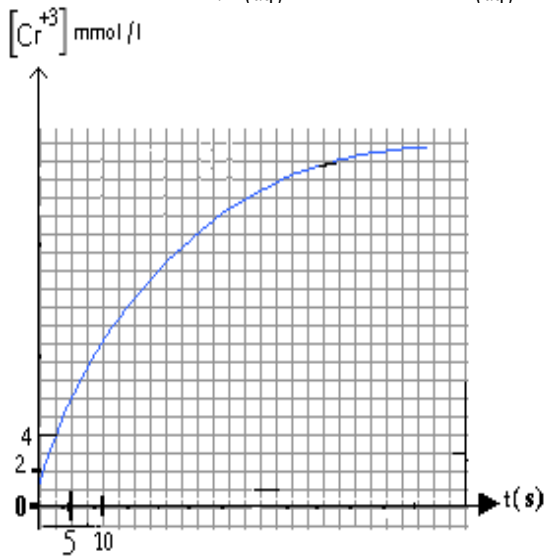
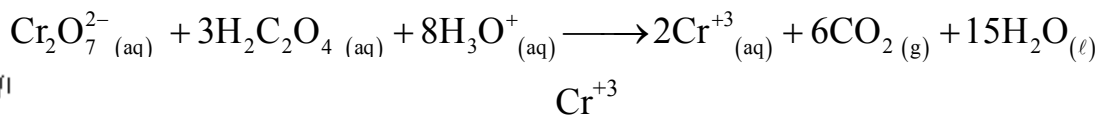
$V=100\text{ml}$

$C' = 0,02$

$V' = 100\text{ml}$

$C = 0,08\text{mol/l}$

.mol / l



- 1

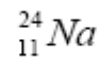
$t = 40\text{s}$

- 2

$t_{1/2}$

- 3

6:

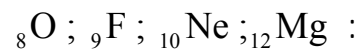


$.m_0 \quad t = 0$

N

.24

- 1



- 2

$t \quad N(t)$

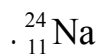
. m_0

N_0

- 3



- 4



- 5

$M({}_{11}^{24}\text{Na}) = 24\text{g/mol} \quad N_A = 6,02 \cdot 10^{23} \text{mol}^{-1} :$

:

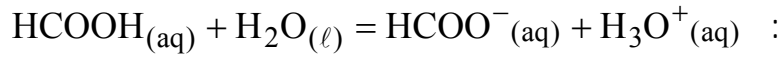
5 :

$c = 2,5 \cdot 10^{-3} \text{ mol.L}^{-1}$

$V = 100 \text{ mL}$

$\text{pH} = 3,23 \quad 25^\circ\text{C}$

pH



/

. 1

K

pH

. 2

$(n_1 \quad)$

. 3

:

. 4

		$\text{HCOOH}_{(\text{aq})} + \text{H}_2\text{O}_{(\ell)} = \text{HCOO}^{-}_{(\text{aq})} + \text{H}_3\text{O}^{+}_{(\text{aq})}$			
		(mol)			
	$x = 0$
	$x = x_f$

x_f

pH

. 5

x_{max}

c

. 6

τ

. 7

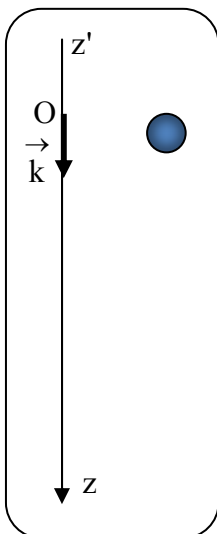
$[\text{HCOOH}_{(\text{aq})}]_f$

. 8

K

. 9

6 :



$(\quad) \vec{P}$

:

V

S

S

\vec{F}

$\vec{\Pi}$

$(\quad K) F = K \cdot v^2$

:

$\rho_a = 1,3 \text{ g.L}^{-1} \quad -$

$\rho_s = 0,92 \text{ kg.mL}^{-1} \quad -$

$g = 9,81 \text{ m.s}^{-2} \quad -$

$V = 1,1 \cdot 10^{-7} \text{ m}^3 \quad -$

$$m = 1,012 \cdot 10^{-4} \text{ kg} \quad . 1$$

$$\frac{P}{\Pi} \quad . 2$$

$$\text{kg} \cdot \text{m}^{-1} \quad \text{K} \quad . 3$$

$$\quad . 4$$

. S

$z^2 z$

. \Rightarrow

$$. B \quad A$$

$$\frac{dv}{dt} = A + B \cdot v^2 \quad ;$$

$$. K$$

$$v_\ell = 12 \text{ m} \cdot \text{s}^{-1}$$

$$. t = 0$$

$$a_0$$

. \rightarrow

$$\tau$$