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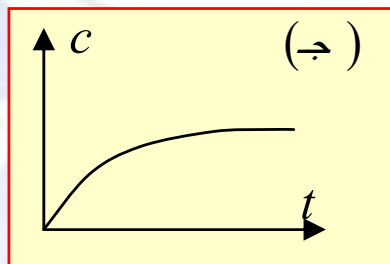
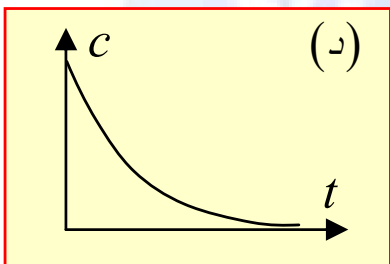
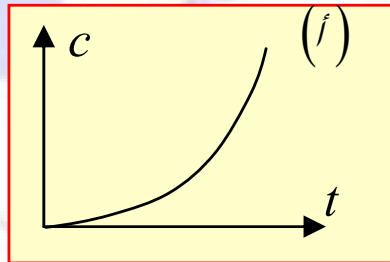
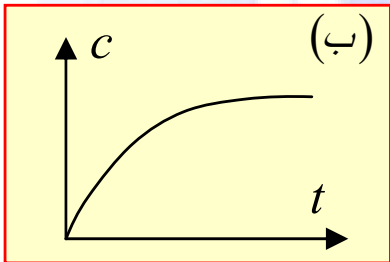
- 1
- 2

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- 1
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- 2



:3

:(B) (A)

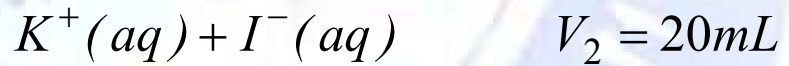
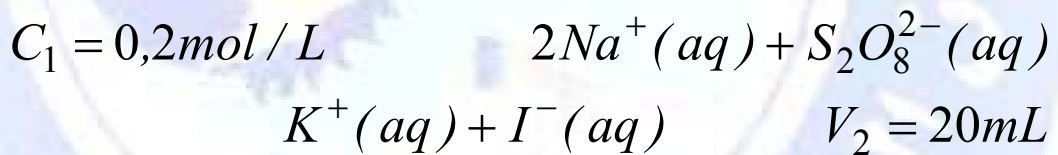


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(B) (A)

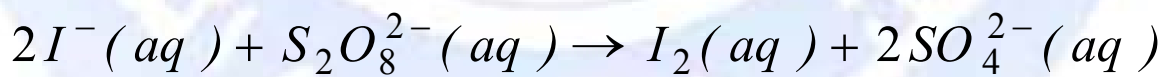
$$\frac{n(A)}{a} = \frac{n(B)}{b} :$$

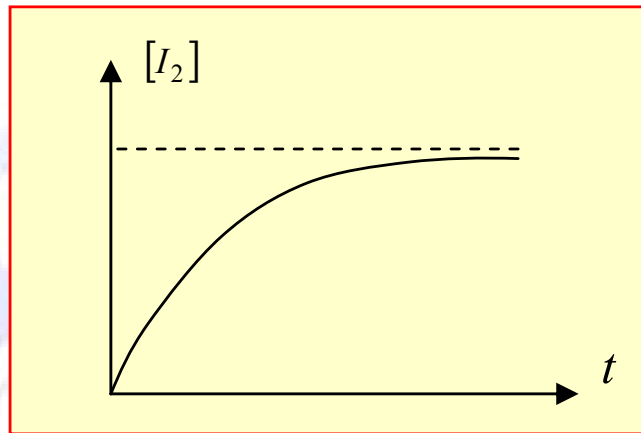
:4

$$V_1 = 20\text{mL} \quad (t=0)$$



$$. C_2 = 0,3\text{mol/L}$$





$$\frac{x(t)}{V} = [I_2](t)$$

$$[I_2] = f(t)$$

$$[I_2] = 100 \text{ mmol} / L$$

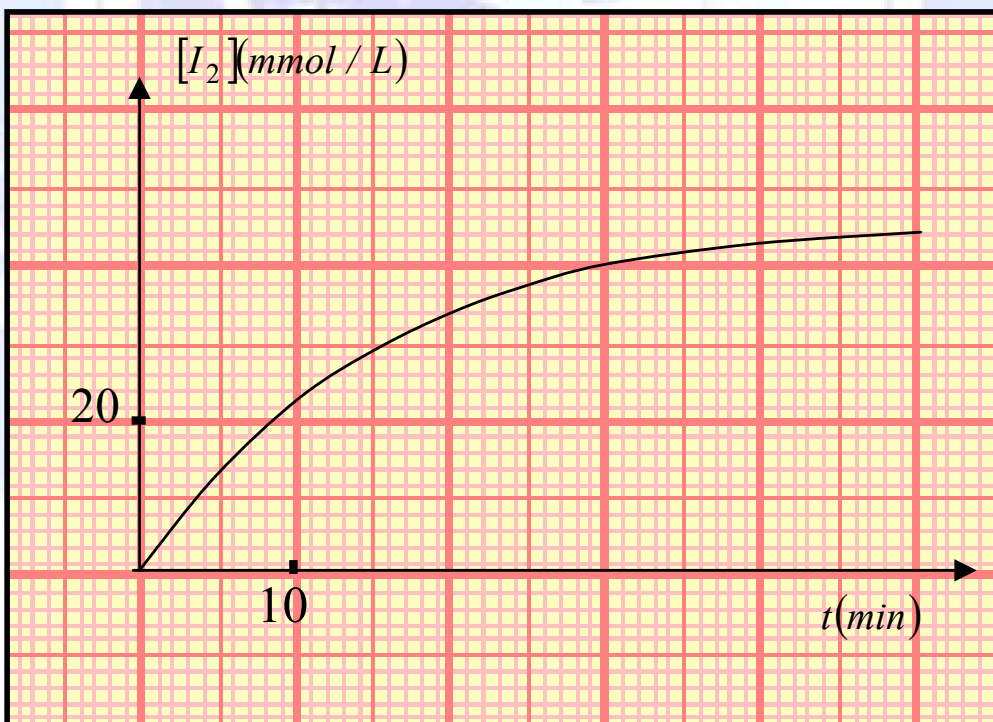
- 1
- 2
- 3
- 4
- 5

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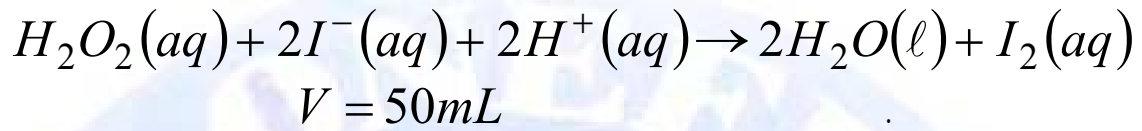
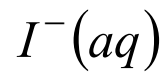
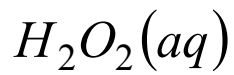
$t = 0 \text{ min}$

- 1

$t = 30 \text{ min}$

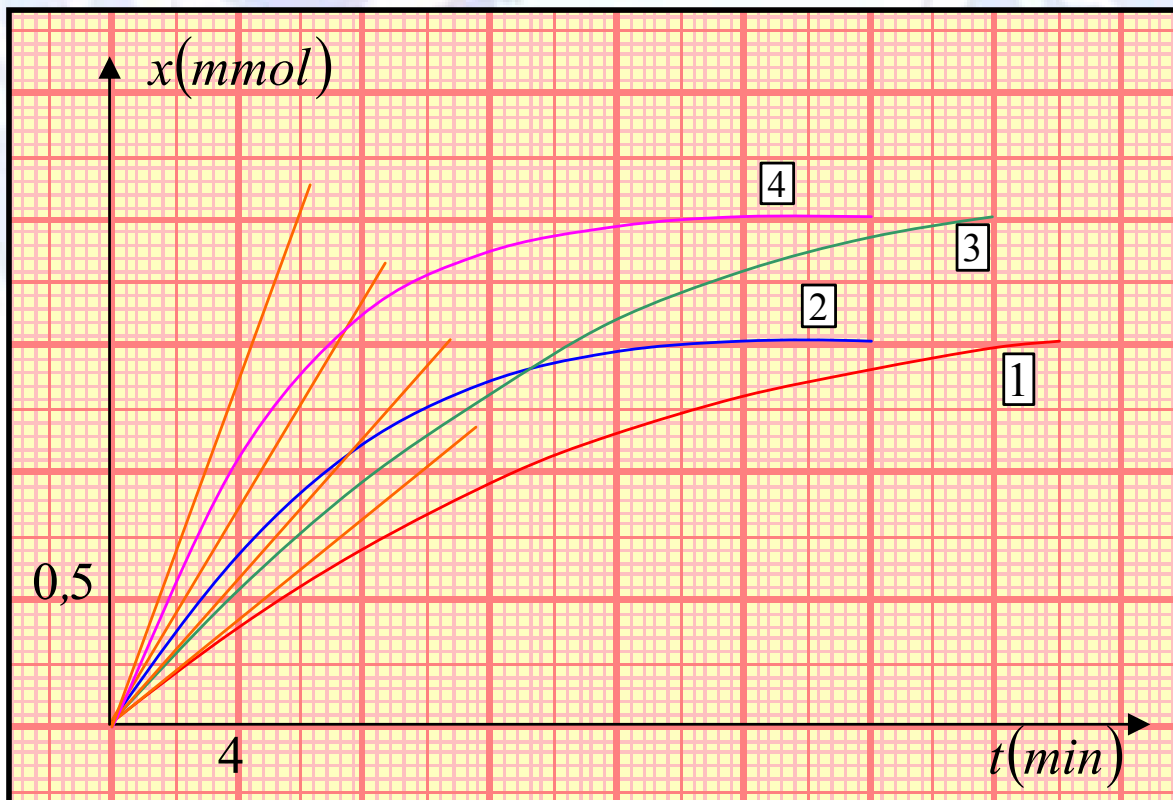


- 2



$$V = 50mL$$

	1	2	3	4
	20	20	20	35
$[I^-]_0 (mmol/L)$	100	200	100	100
$[H_2O_2]_0 (mmol/L)$	30	30	40	40



- 1

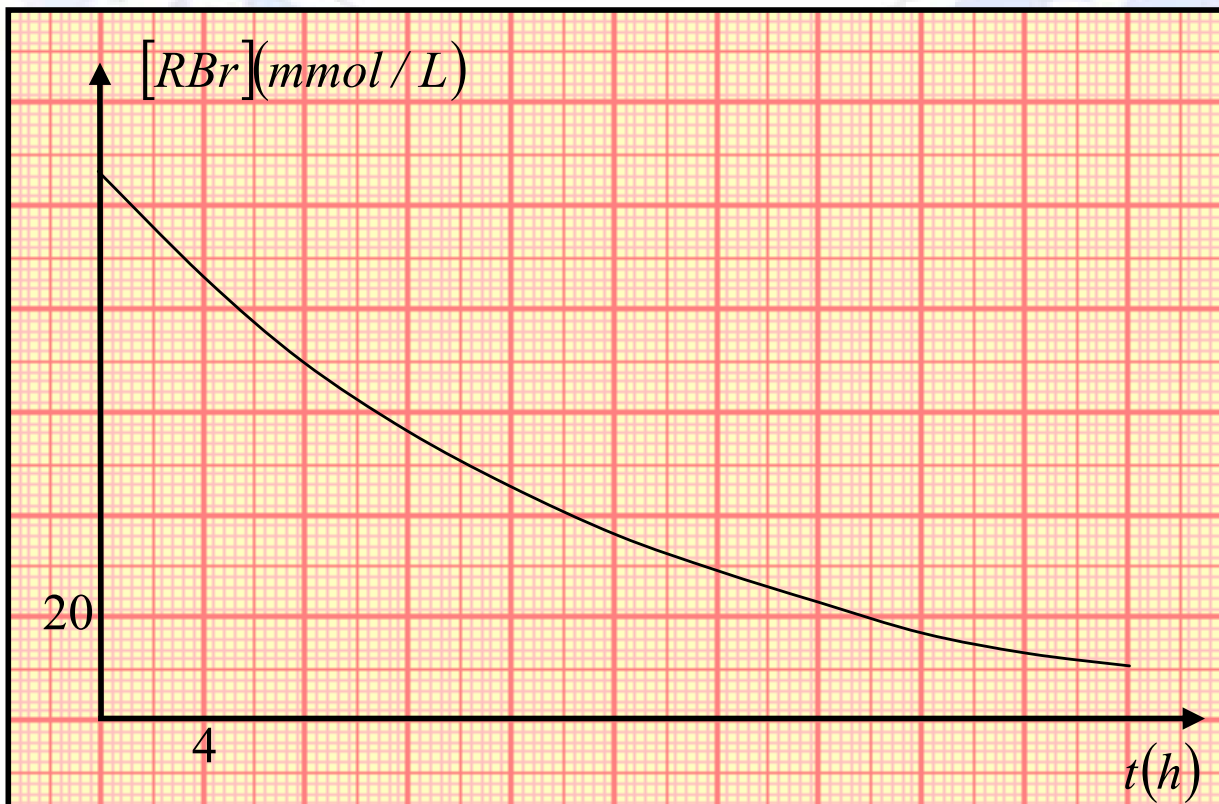
- 2

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$[RBr]$

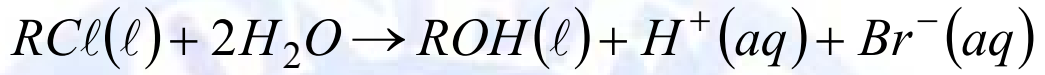
. $T_1 = 20^\circ C$



- 1

$$(V) \quad \frac{x}{V}$$

- 2



$t = 0$	$[RBr]_0$				
$t > 0$					

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- 3

$\tau_{1/2}$

- 4

- 5

$t = \tau_{1/2}$

$$T_2 = 50^\circ C$$

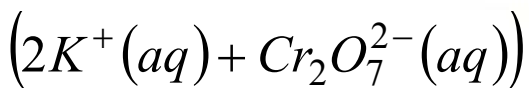
- 6

$$\tau'_{1/2} = 56 \text{ min} \quad v'(0) = 77 \text{ mmol} / L \cdot h :$$

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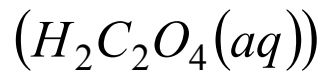
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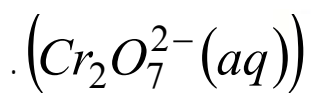
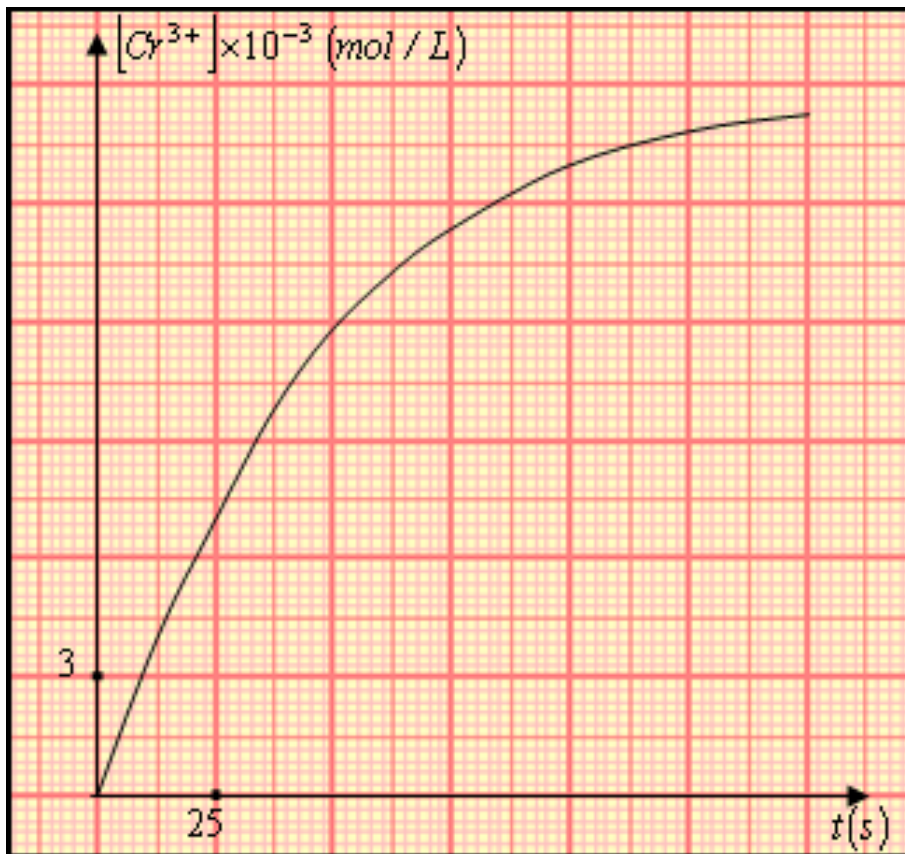
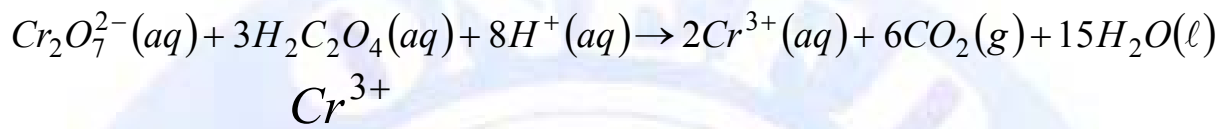
-

$$.1/60 \text{ mol} / L$$



$$. 6,0 \cdot 10^{-2} \text{ mol / L}$$
$$50 \text{ mL}$$

. 10 °C



- 1

$x(t)$

- 2

المعادلة	$Cr_2O_7^{2-}(aq) + 3H_2C_2O_4(aq) + 8H^+(aq) \rightarrow 2Cr^{3+}(aq) + 6CO_2(g) + 15H_2O(l)$					
(mmol)						
(t) (mmol)						

- 3

$$[Cr^{3+}]$$

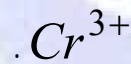
$$t = 50s$$

- 4

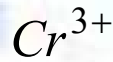
- 5

- 6

- 7



$\tau_{1/2}$



- 8

$\tau_{1/2}$

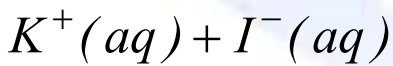
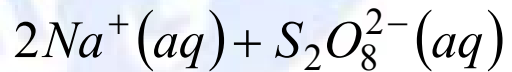
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(S₁)

t = 0

$$V_1 = 30mL$$



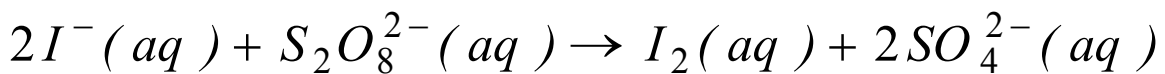
(S₂)

$$C_1 = 0,2mol / L$$

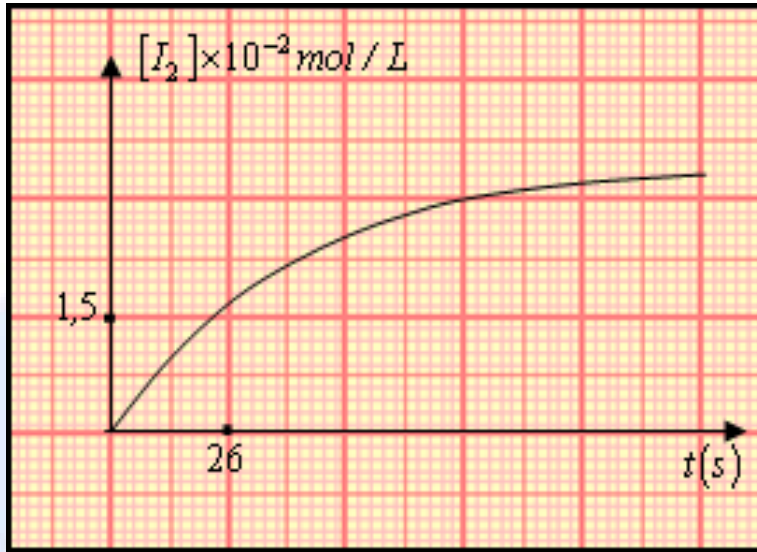
$$C_2 = 0,2mol / L$$

$$V_2 = 40mL$$

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$x(t)$
 $[I_2]$
 $t = 52s$
 $\tau_{1/2}$

- 1

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- 2

- 3

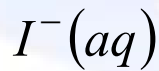
- 4

- 5

- 6

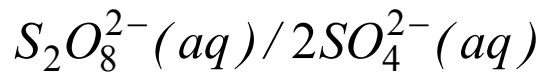
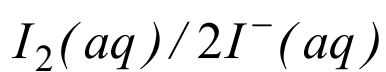
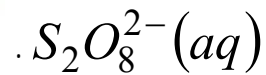
- 7

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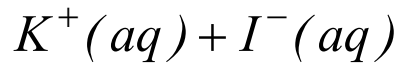
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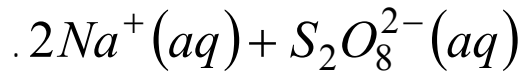


$$V_1 = 50mL$$

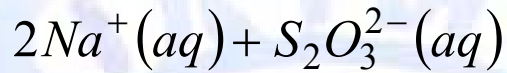
$$(t = 0)$$

$$V_2 = 50mL$$

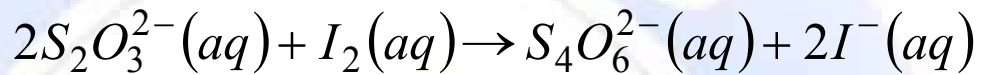




$$V_p = 10 mL$$



$$C = 2 \cdot 10^{-2} \text{ mol / L}$$



$t(\text{min})$	3	8	15	25	40	60
$V_{eq}(\text{mL})$	3,5	7,5	11,4	14,8	17,3	18,1
$[I_2](\text{mol / L})$						

- 1

- 2

- 3

- 4

$V_{eq} \quad [I_2]$ - 5

- 6

$[I_2] = f(t)$ - 7

$[I_2]$ - 8

$t = 30 \text{ min}$ - 9