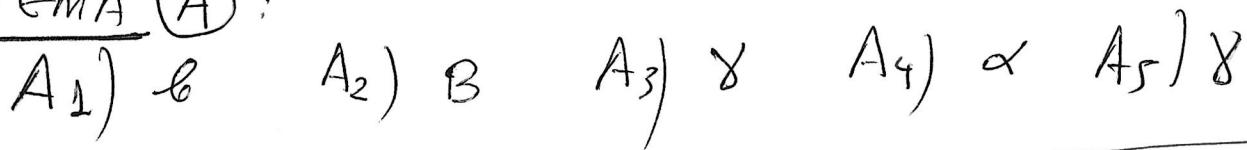


AΞΙΟΛΟΓΗΣΗΣ Α' ΤΕΤΡΑΜΗΝΟΥ

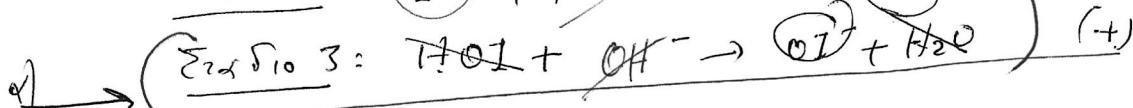
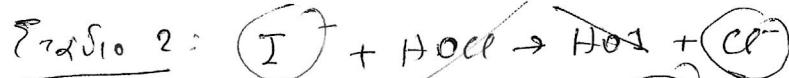
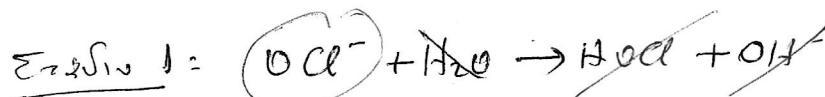
ΘΕΜΑ A (A):



ΘΕΜΑ B (B):

- i) α)  $V \downarrow$  β)  $\downarrow$
- ii) α)  $V = \uparrow$  β)  $\omega \omega$
- iii) α)  $V \downarrow$  β)  $\omega \omega$
- iv) α)  $V \downarrow$  β)  $\omega \omega$

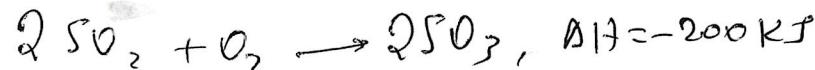
(B<sub>2</sub>)



b) HOCl, HOI, OH<sup>-</sup>

ΘΕΜΑ F (F): 2 mol SO<sub>2</sub>, 8 mol O<sub>2</sub>      |     $\alpha + \ell = \frac{11/2}{22,4} = 0,5$

(F<sub>1</sub>)



$\alpha$	$\ell$	
-2x	-x	2x
$\alpha - 2x$	$\ell - x$	2x

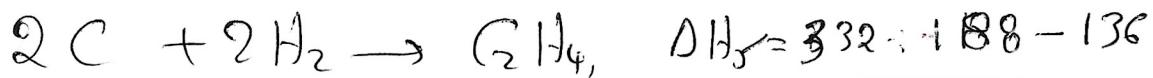
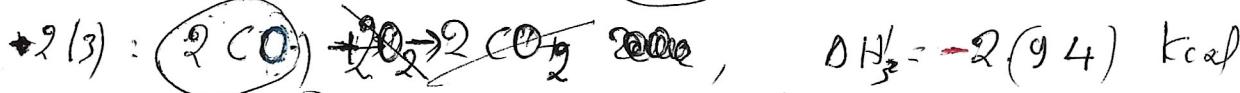
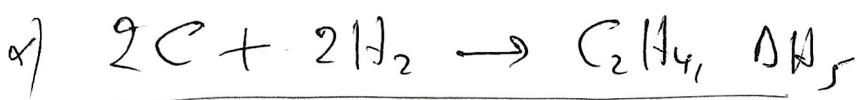
$$\left. \begin{aligned} \Delta H &= -200x \\ -200x &= -20 \end{aligned} \right\} \boxed{x = 0,1}$$

$$\text{g) } M_{\text{SO}_3} = 2x \cdot M_r = 0,2 \cdot 80 = 16 \text{ g}$$

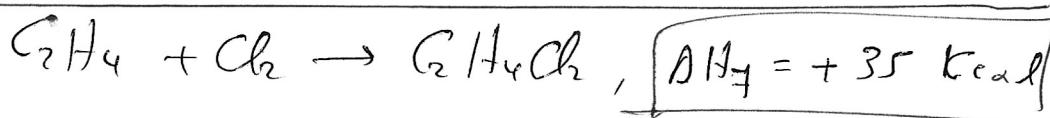
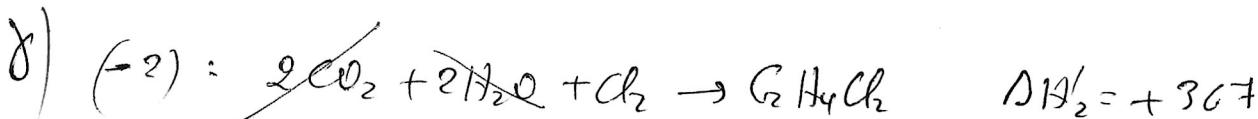
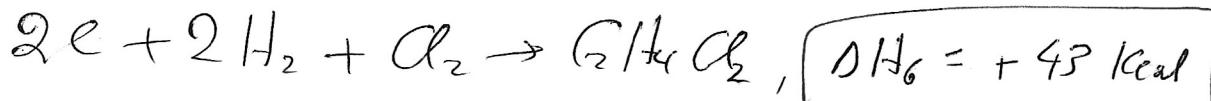
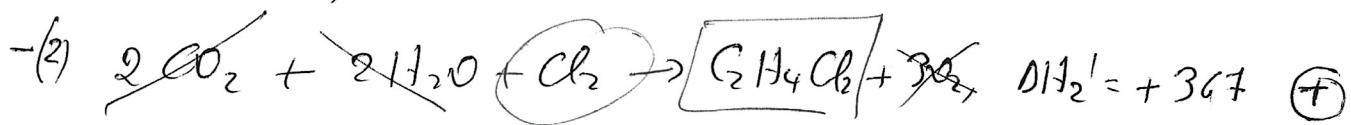
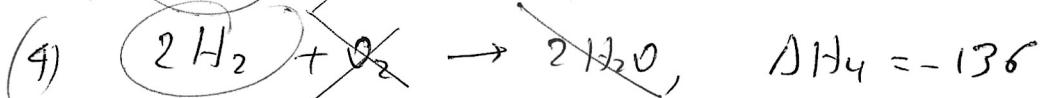
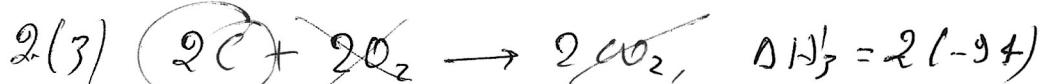
$$\text{e) } \text{e/ e} \text{N}_A \cdot 20 \text{ SO}_2 : \alpha = 2x = 0,2 \text{ mol} \Rightarrow n_{\text{SO}_2} = 0,3 \text{ mol}$$

$$\text{c) } \text{e/ e} \text{N}_A \cdot 20 \text{ O}_2 : \ell = 0,1 \text{ mol O}_2 \Rightarrow n_{\text{O}_2} = 0,4 \text{ mol}$$

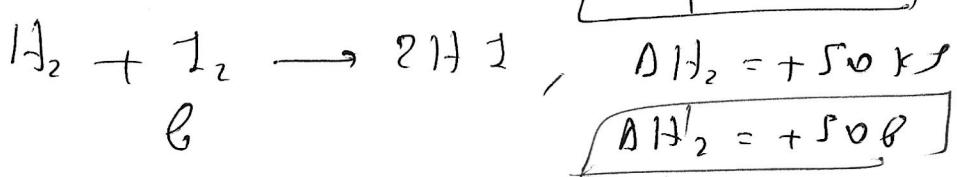
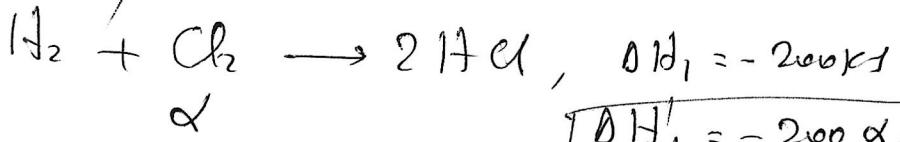
12



$$\boxed{\Delta H_f = +8 \text{ kcal}}$$



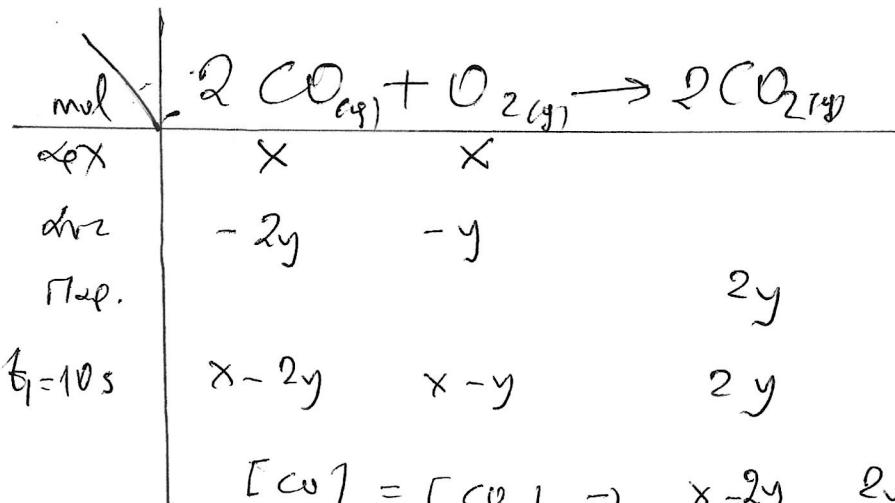
$\Delta H_1$  α mol Cl<sub>2</sub> θ mol I<sub>2</sub>



$$[\Delta H'_1] = \Delta H'_2 \Rightarrow +200\alpha = 50\ell \Rightarrow \frac{\ell}{\alpha} = \frac{20}{5} = \frac{4}{1}$$

A) 2)

V=10L



$$[CO] = [CO_2] \Rightarrow \frac{x - 2y}{x} = \frac{2y}{x} \Rightarrow \cancel{x} \cancel{2y} \Rightarrow \cancel{2y}$$

$$\frac{2y}{10} = 0,2 \Rightarrow 2y = 2 \Rightarrow \boxed{y = 1}$$

$$\frac{x - 2 \cdot 1}{10} = 0,2 \Rightarrow \boxed{x = 4}$$

g)  $N_{CO} = -\frac{\Delta [CO]}{\Delta t} = -\frac{(0,2 - 0,4)}{10} = 0,02 \frac{\text{M}}{\text{s}}$

$$N_{O_2} = \frac{1}{2} N_{CO} = 0,01 \frac{\text{M}}{\text{s}}$$

$$N_{CO_2} = 0,02 \frac{\text{M}}{\text{s}}$$

$$N_p = N_{O_2} = 0,01 \frac{\text{M}}{\text{s}}$$

γ) Αν η χρήση Δεινού στην επίδραση μηδείς ανδρών  
 για διάφορα μόλις στα οποία επιδρούν

8)

	$2CO(g) + O_2(g) \rightarrow 2CO_2(g)$
$\alpha_{CO}$	X
$\alpha_{O_2}$	X
$t = t_2$	$x - 2w$

$$[O_2] = \frac{4-w}{10} = 0,2 \Rightarrow 4-w=2 \\ w=2$$

Orte  $n_{CO} = 4 - 2 \cdot 2 = 0 \Rightarrow$  η ανιδρωμ

αλογηρίδινε.. Την επίσημη  $t = t_2$

$$\eta \quad v_{t_2} = 0$$

e) Για να ισχύει  $2\text{mol } CO + 1\text{mol } O_2 = 3\text{mol } CO_2$  απίστιν

ηαράρηση  $2\text{mol } CO_2(g) \Rightarrow$  διδ τα

ανιδριδ αραχίδινα μολ απίστιν είναι διότερο  
αντα τα ανιδρώνα  $\Rightarrow$  η  $P_{O_2} \downarrow$

$$\text{αψού} \quad P_{O_2} = \frac{n_{O_2(g)} R T}{V}$$