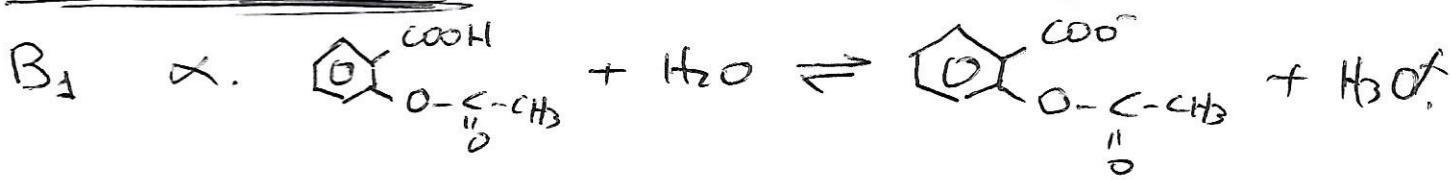
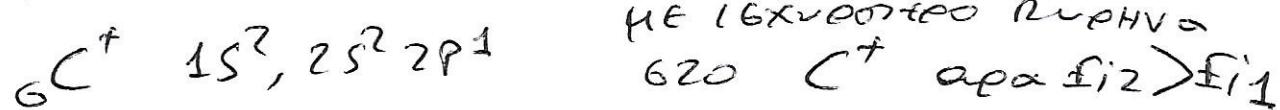
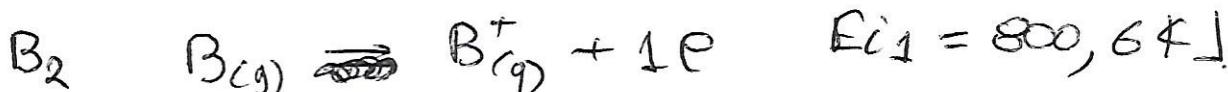


①

DEMA ADEMA B

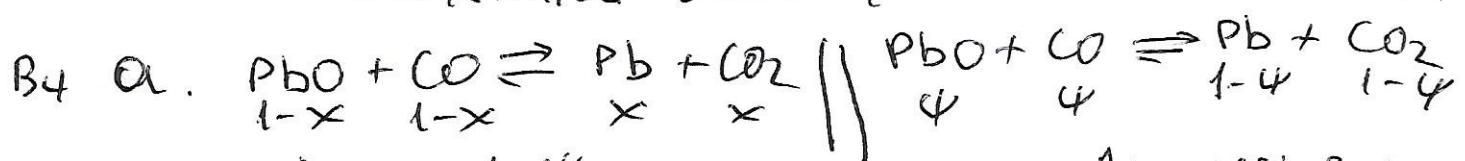
В. $\Sigma z_0 p_i x_i$ ($p_1 t = 1,5$) 16xveo oxiu S4ya uizero mjei
zdu anidpoh opisefex (ut i ovnemivt nopl yit)



Iuvnagouj

① + ②.

B₃ ② \Rightarrow Au3H6H (H₂O₂) reobozka zdu H₂O₂ uan
apx oxH6H n00i0vzwv (O₂). EPEiDH
omws n [H₂O₂] f pheiwoza uan u
zaxxuzhzo orus qaxwzon 620 6XHMa

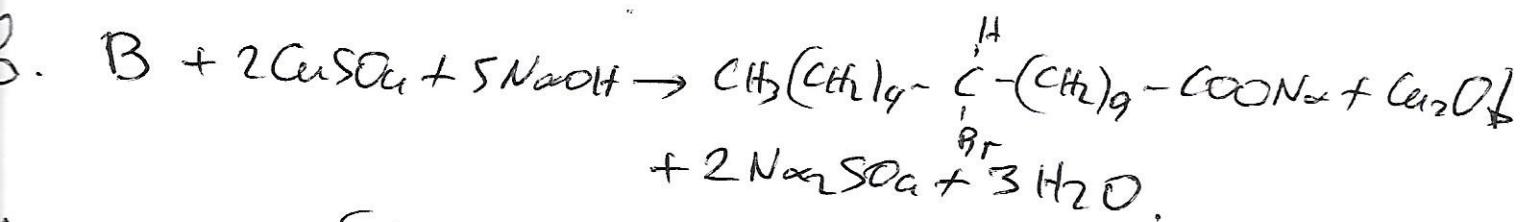
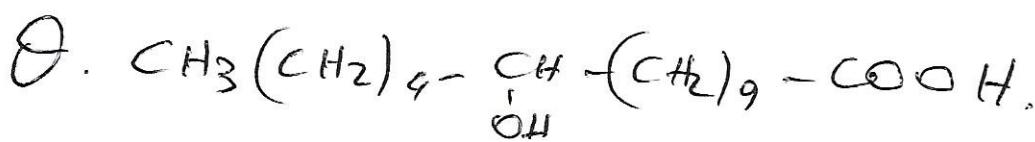
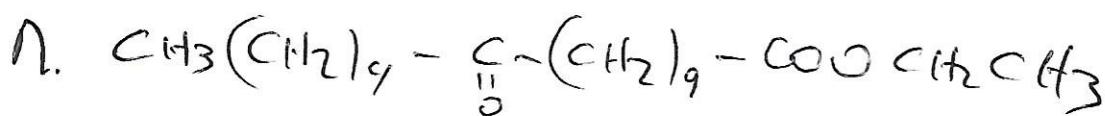
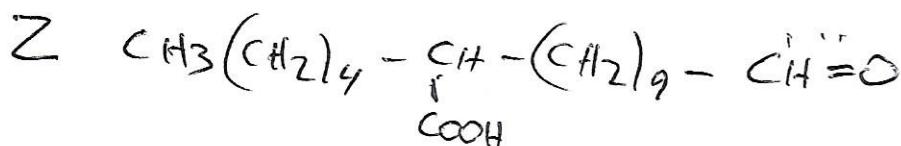
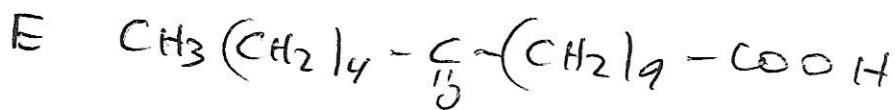
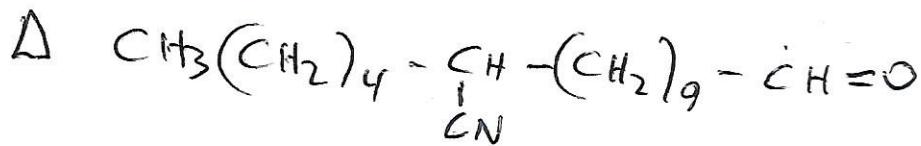


$$K_C = \frac{x}{1-x} = \frac{1-\psi}{\psi} \Rightarrow \dots \quad \psi = 1-x. \quad \text{Apk (6E) reobozka}$$

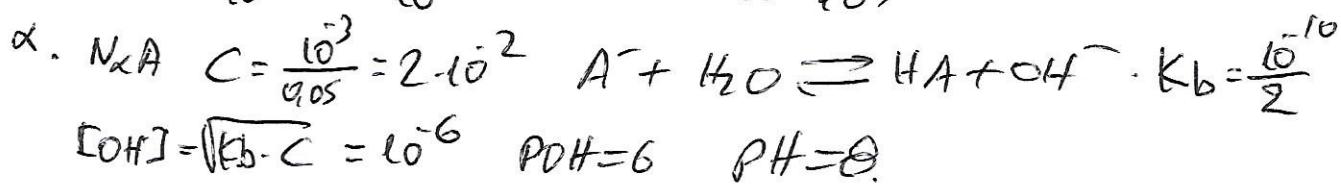
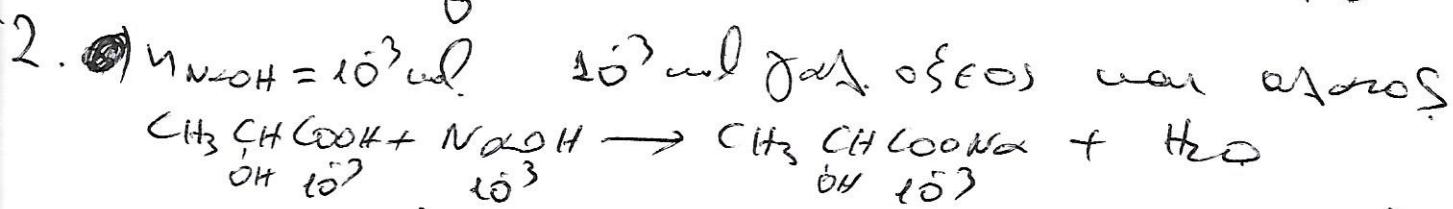
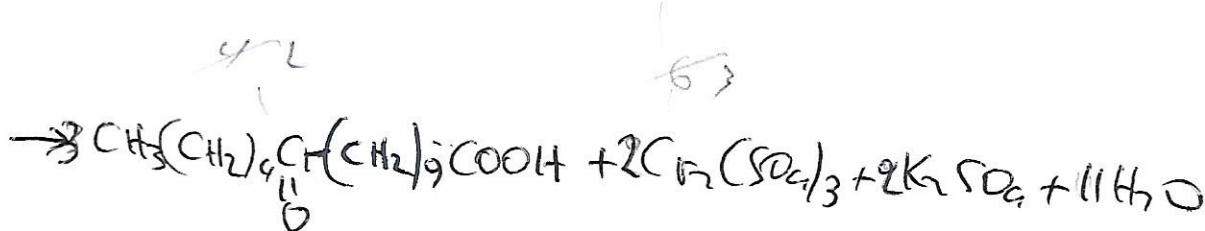
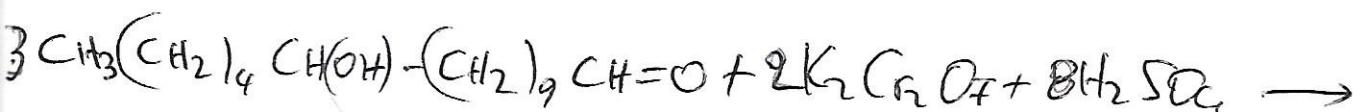
б. ranč

(2)

CEMA

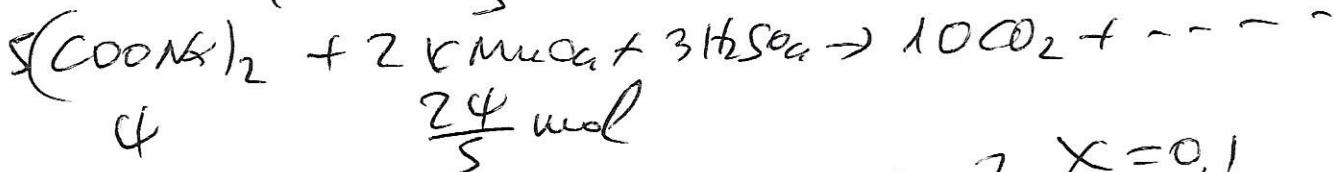
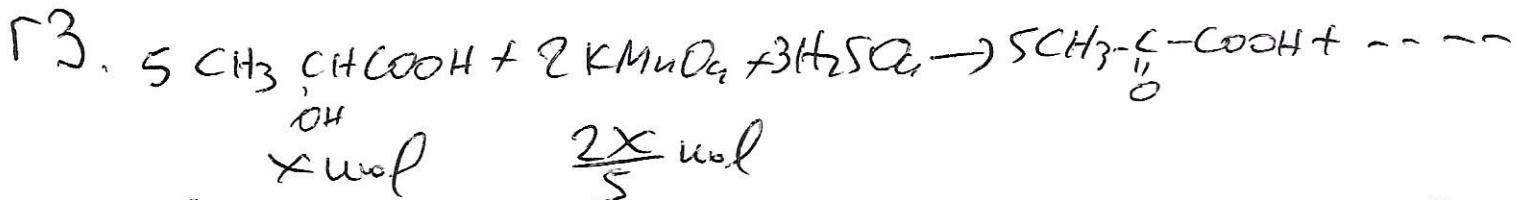


5. $\alpha_{D20D} = 5L_{F12} \quad NaOH \downarrow KOH$



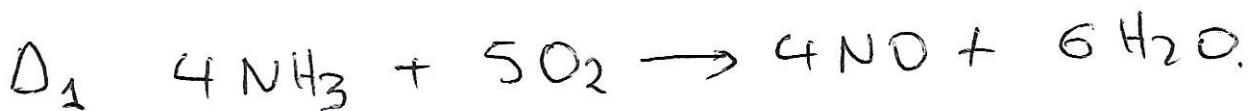
$$B. M_{\text{dose}} = n M_r = 10^3 \cdot 90 = 0,09 \text{ g} \quad 0,9 \% \text{ w/w}$$

(3)



$$\begin{aligned} \frac{2x}{5} + \frac{24}{5} &= 0,12 \Rightarrow x + 4 = 0,3 \\ x + 2 \cdot 4 &= 0,5 \end{aligned} \quad \left. \begin{array}{l} x = 0,1 \\ 4 = 0,2 \end{array} \right\}$$

ΘΕΜΑ 4Ω

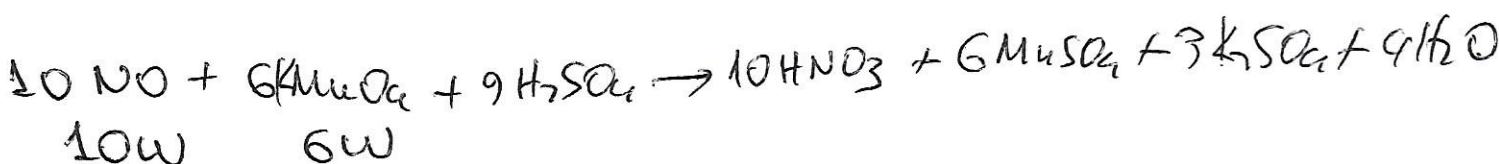


Αναγωγή NH_3

Οξείωση O_2 .



KMnO₄ $n = 0,54 \text{ mol}$



$$6w = 0,54 \Rightarrow w = 0,09 \quad \alpha \approx 10w = 0,9 \text{ mol NO}$$

και $0,1 \text{ mol N}_2$

To $0,9 \text{ mol NO}$ προφέρεται $0,9 \text{ mol NH}_3$
 ~~~  $0,1 \text{ mol N}_2$       -||-       $0,2 \text{ mol NH}_3$

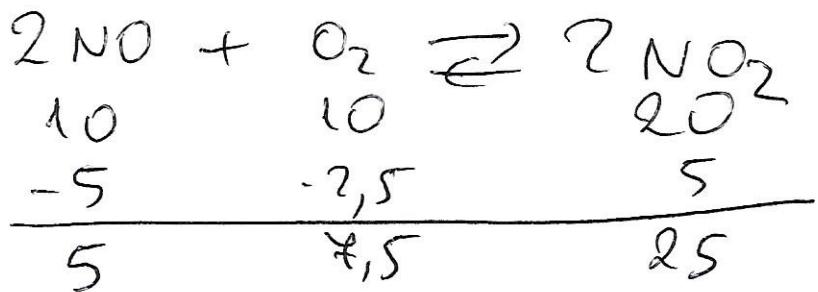
$$\text{Αρχ} \quad \frac{0,9}{0,11} = \frac{9}{11}$$

(4)

Δ3. χ. Εξισεμή σε κανονική δεσμοπυκνότη

$$C. K_C = 4$$

γ. Μειωθή οξυγ.



$$\frac{\left(\frac{25}{V}\right)^2}{\left(\frac{5}{V}\right)^2 \frac{7,5}{V}} = 4 \Rightarrow V = 1,2 \text{ L}$$

$$\Delta V = 10 - 1,2 = 8,8 \text{ L.}$$

Δ4. Κυριαρχία πλεον.

|    |                 |                  |                               |
|----|-----------------|------------------|-------------------------------|
| Δ5 | NH <sub>3</sub> | HNO <sub>3</sub> | $C_A = \frac{5V_1}{V_{TCA}}$  |
|    | 5M              | 10M              | $C_B = \frac{10V_2}{V_{TCA}}$ |
|    | V <sub>1</sub>  | V <sub>2</sub>   |                               |



$$\frac{C_A - C_B}{C_A + C_B} = \frac{5V_1 - 10V_2}{5V_1 + 10V_2}$$

Πρόβ. σημα

$$[\text{H}_3\text{O}^+] = k_e \frac{C_A - C_B}{C_A + C_B} \Rightarrow \dots$$

$$\dots \frac{V_1}{V_2} = \frac{101}{50} \quad \text{et} \quad \frac{V_2}{V_1} = \frac{50}{101}$$

ΤΑΚΗΣ ΤΑΤΙΑΣΤΑΣ