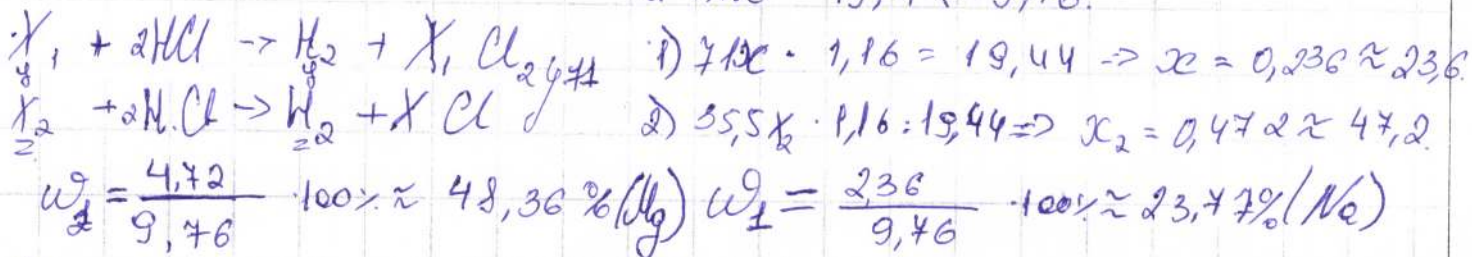


№1: HCl-мен сілтілік металл не сілтілік әсер метал элементтері
 $n(\text{H}_2) = \frac{V}{V_m} = \frac{25,95 \text{ л}}{22,4 \text{ л}} \approx 1,16 \text{ моль (тамм.)}$ (сұрақтың қ.ж. зат мөлшері)
 $29,20 - 19,44 = 9,76$

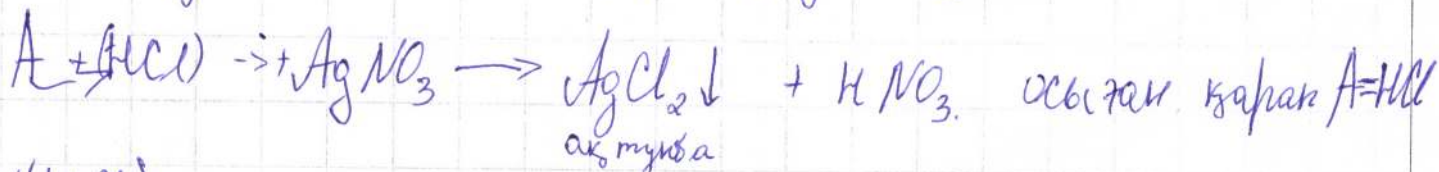


1) Na және Mg; $\rightarrow 48,36\%$; $\rightarrow 23,77\%$ 2) $\begin{matrix} 116 & v=? \\ \text{H}_2 & \rightarrow \text{KOH} \\ 1 & 56 \text{ л моль} \end{matrix}$ $m(\text{KOH}) = 1,16 \text{ моль} \cdot 56 \text{ л моль} = 64,96 \text{ г}$

$$M_r(\text{KOH}) = 39 + 16 + 1 = 56 \text{ г моль}$$

$$m = \rho \cdot V \cdot \omega \Rightarrow V = \frac{m}{\rho \cdot \omega} = \frac{64,96}{1,185 \text{ г/мл} \cdot 0,25} = \frac{64,96}{0,29625} \approx 219,3 \text{ мл}$$

№3: $\text{MgCl}_2 \cdot 6\text{H}_2\text{O} \xrightarrow{300^\circ\text{C}} \text{A} + \text{Mg} + 3\text{O}_2 \approx 0,21927 \text{ л}$



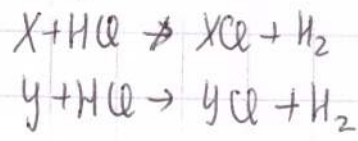
$$V(\text{HCl}) = 50 \text{ мл}; c = 0,1; n = ?$$

$$c = \frac{n}{V}; n = c \cdot V = 0,1 \cdot 50 \text{ мл} = 5 \text{ моль}$$

Есеп 1

$$\begin{cases} x+y=29,22 \\ m_1+m_2=29,22 \\ V(H_2)=25,92л \end{cases}$$

Менші



$$\frac{29,2}{x+y} = \frac{2,3}{2}$$

1) $w(X)$ -?
 $w(Y)$ -?

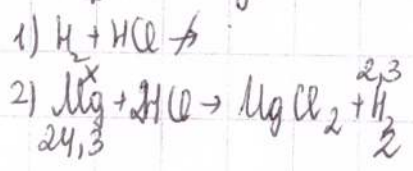
$$n(H_2) = \frac{25,92}{22,4} = 1,15 \text{ моль.}$$

$$m(H_2) = 1,15 \text{ моль} \cdot 2 \text{ г/моль} = 2,3 \text{ г}$$

$$\left[\frac{x+y}{2} = \frac{2,3}{2} \right] M(x+y) = \frac{29,2 \cdot 2}{2,3} = 25,39 \text{ г/моль.} = 25,4 \text{ г/моль.}$$

Менің ойыма бұл Мольдің массалар қосындына Mg мен H қай келеді

Сондықтан

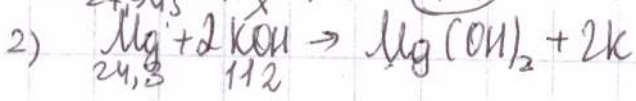


$$m(Mg) = \frac{2,3 \cdot 24,3}{2} = 27,945 \text{ г}$$

$$m(H_2) = 29,2 - 27,945 = 1,255 \text{ г}$$

$$w(Mg) = \frac{m_{\text{жам}}}{m_{\text{қоспа}}} \cdot 100\% = \frac{27,945}{29,2} \cdot 100\% = 95,7\%$$

$$w(H) = 100\% - 95,7\% = 4,3\%$$

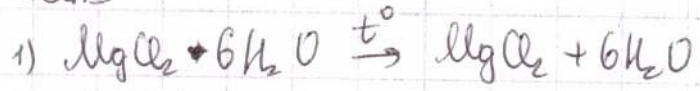


$$m(KOH) = \frac{27,945 \cdot 112}{24,3} = 128,8 \text{ г}$$

$$m(KOH)_{\text{ергі}} = \frac{128,8 \cdot 25\%}{100\% \cdot 4} = 32,2 \text{ г}$$

$$V(KOH) = m \rho = 32,2 \text{ г} \cdot 1,185 \text{ г/мл} = 38,157 \text{ мл}$$

Есеп 3



$$m(MgCl_2) = 0,291 \text{ г}$$

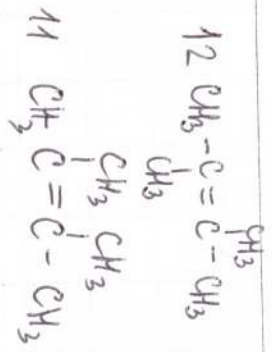
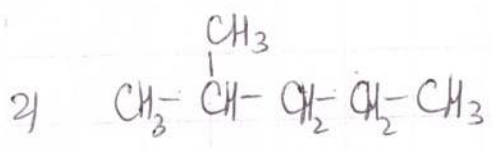
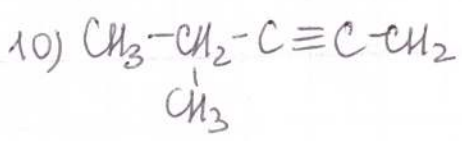
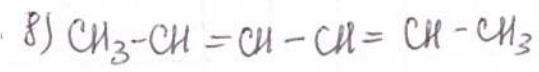
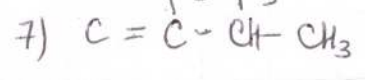
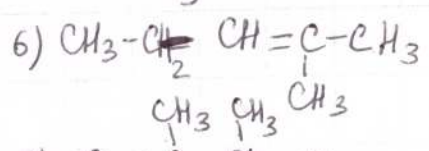
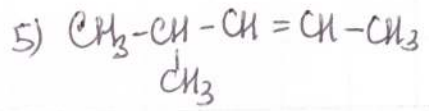
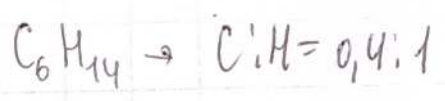
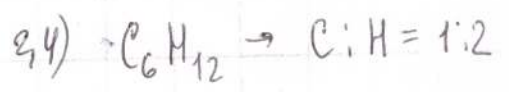
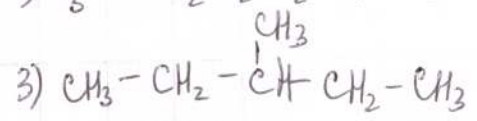
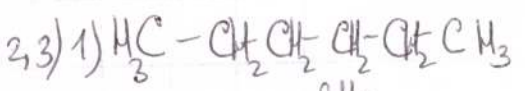
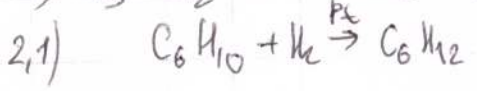
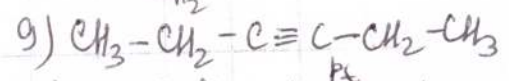
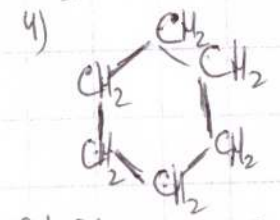
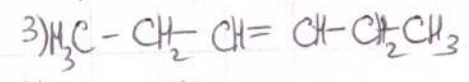
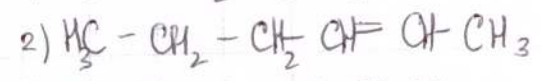
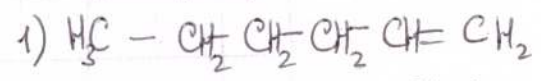
$$M(MgCl_2) = 95,3 \text{ г/моль} \quad w(Cl) = \frac{71}{95,3} \cdot 100\% = 74,5\%$$

$$M(MgCl_2 \cdot 6H_2O) = 203,3 \text{ г/моль} \quad w(Cl) = \frac{71}{203,3} \cdot 100\% = 34,9\% \approx 35\%$$

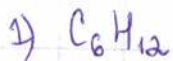
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Есеп 4
 $\rho(C_xH_y) = 3,75 \frac{г}{л}$
 $\rho = \frac{m}{V_m} \rightarrow m = \rho V_m = 3,75 \frac{г}{л} \cdot 22,4 л = 84 г$
 $12n + 2n = 84$
 $14n = 84$
 $n = 6$
 $C_xH_y \rightarrow C_6H_{12}$

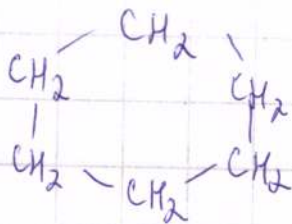
2) Измерения



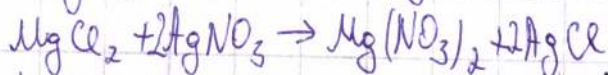
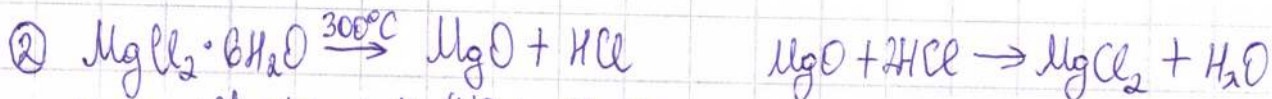
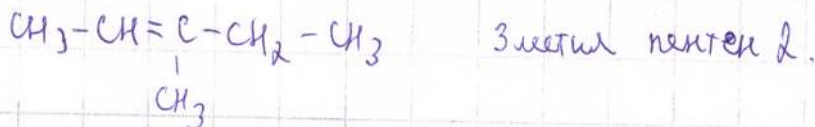
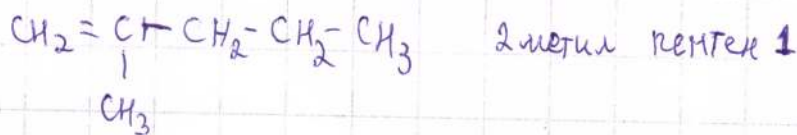
④ $\rho = 3,752/\mu$ $m = \rho V = 3,75 \cdot 22,4 = 84$ $M(C_xH_y) = 84$ $x=6$ $y=12$



2) циклогексан

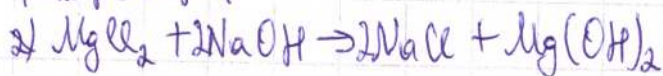


Қос байланыс және радикалдың орналасуына қарай изомерлері бар.



1) $M(Cl_2) = 95$ $\omega(MgCl_2) = \frac{71}{95} = 74,7\%$

4-ші реакция:



N 2.

A - FeO

B - Cl₂B - FeCl₂

Г - CO

D - C₈H₁₇Cl - CH₃-CH₂-CH₂-CH₂-CH₂-CH₂-CH₂-CH₂-Cl

X - Cl.

n - 10

N 3

9.1 - 74.7%

N 4

4.1 - C₆H₁₂ - циклооксан