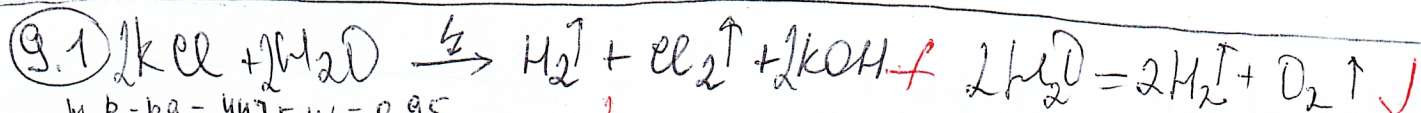
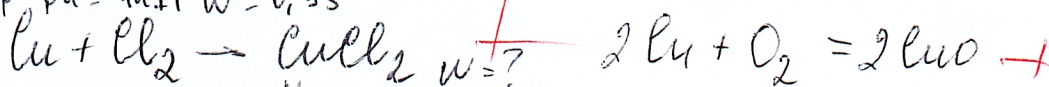


1	2	3	4	5	6	7	8	9	10
6	3	9	4	4	12		10	10	

53 лет

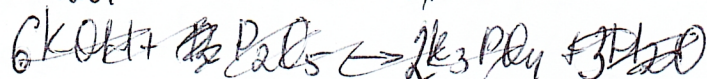


$m_{p-pa} = 447 \text{ г}$ $w = 0,95$



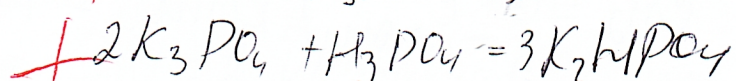
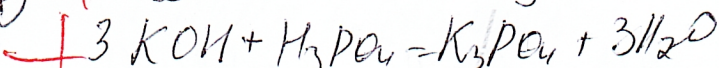
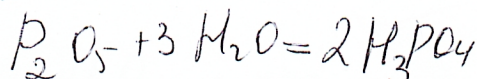
$m = 100 \text{ г}$

$M = 135 \text{ г/моль}$



$m = 7,81 \text{ г}$

$M = 212 \text{ г/моль}$



$\nu_{P_2O_5} = \frac{7,81}{142} = 0,055 \text{ моль}$

$\nu_{H_3PO_4} = 2 \nu_{P_2O_5} = 0,11$

$\nu_{Cu} = \frac{100}{64} = 1,56 \text{ моль}$

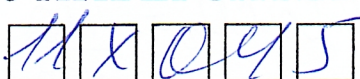
$m_{KCl} = 447 \cdot 0,95 = 424,65 \text{ г}$

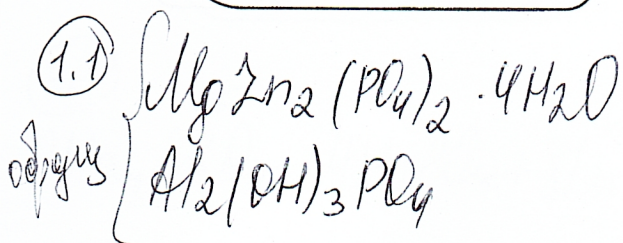
$\nu_{KCl} = \frac{424,65}{74,5} = 5,7 \text{ моль}$

$m(p) = m_p - m(Cl_2) - m(H_2) - m(H_2O) + m(P_2O_5)$
 $\Sigma 100$



СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ





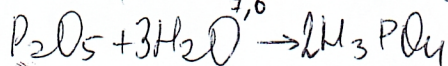
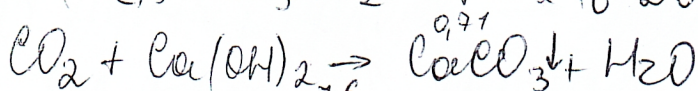
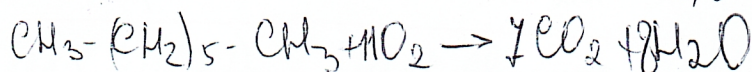
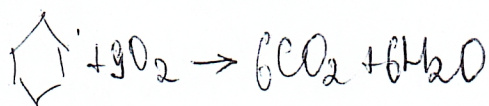
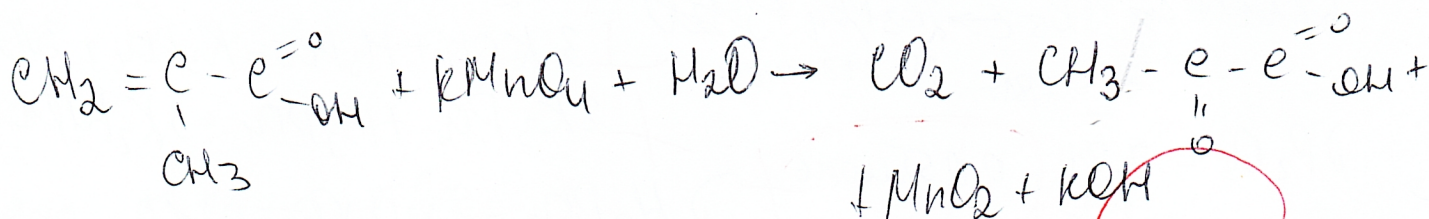
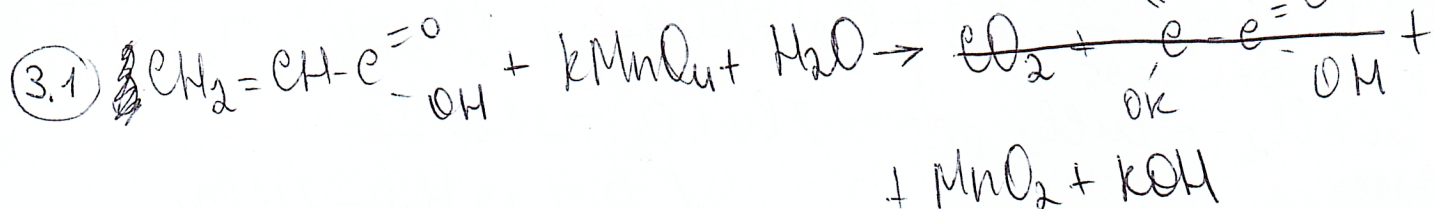
$$N(\text{O}) = 7,6454 \cdot 10^{23}$$

$$N(\text{P}) = 1,2642 \cdot 10^{23}$$

$$\nu(\text{O}) = \frac{7,6454 \cdot 10^{23}}{6,02 \cdot 10^{23}} = 1,27 \text{ моль}$$

$$\nu(\text{P}) = \frac{1,2642 \cdot 10^{23}}{6,02 \cdot 10^{23}} = 0,21 \text{ моль}$$

Пусть $\text{MgZn}_2(\text{PO}_4)_2 = x$, тогда $12x + 7y = 1,27$ $x = 0,1$
 $2x + y = 0,21$ $y = 0,01$
 а $\text{Al}_2(\text{OH})_3\text{PO}_4 = y$ тогда $200 \cdot 0,01 = 2$ $\Sigma m_{\text{O}} = 436$



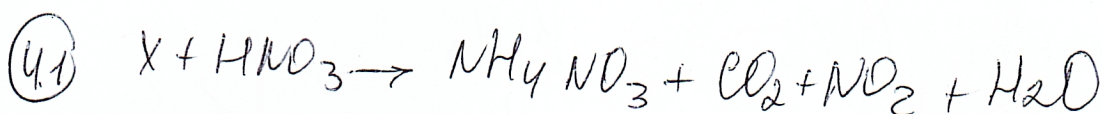
СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

АХОУС

$$\nu \text{H}_2\text{O} = \frac{136,8}{18} = 7,6 \text{ моль}$$

$$\nu \text{CaCO}_3 = \frac{410}{100} = 4,1 \text{ моль}$$

~~Менделеев, 2023-2024~~



$m = 0,267 \text{ г}$

$m = 0,4 \text{ г} \quad V = 0,249 \text{ л} \quad V = 0,746 \text{ л}$

$p = 99725 \text{ Па}$

$t^\circ \text{C} = 25^\circ$

$pV = \nu RT$

$99725 \cdot 0,746 = \nu \cdot 8,31 \cdot (25 + 273)$

$\nu NO_2 = \frac{74394,85}{2476,38} = 30 \text{ моль}$

$\nu H_2O = \frac{0,252}{18} = 0,014 \text{ моль} ; \nu H = 2 \cdot \nu H_2O = 0,028 \text{ моль}$

$\nu NH_4NO_3 = \frac{0,4}{80} = 0,005 \text{ моль} ; \nu N = 2 \cdot \nu NH_4NO_3 = 0,01 \text{ моль}$

$\nu CO_2 = \frac{0,249}{22,4} = 0,01 \text{ моль} ; \nu C = \nu CO_2 = 0,01 \text{ моль}$

$m H = 0,028 \cdot 1 = 0,028 \text{ г}$

$m N = 0,01 \cdot 14 = 0,14 \text{ г}$

$m C = 0,01 \cdot 12 = 0,12 \text{ г}$

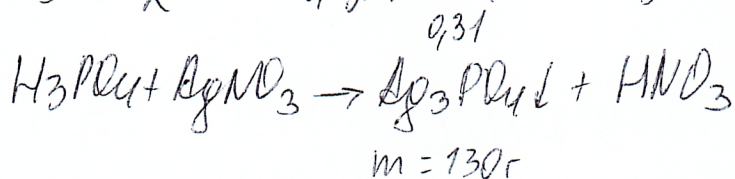
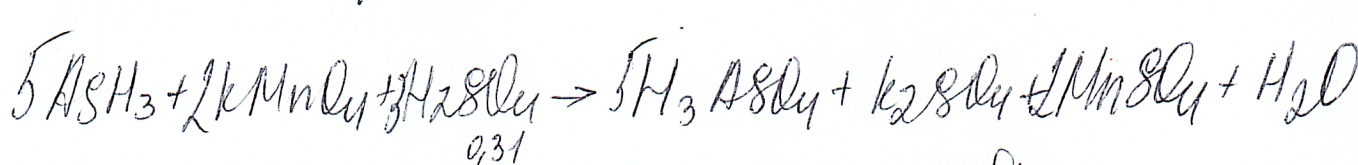
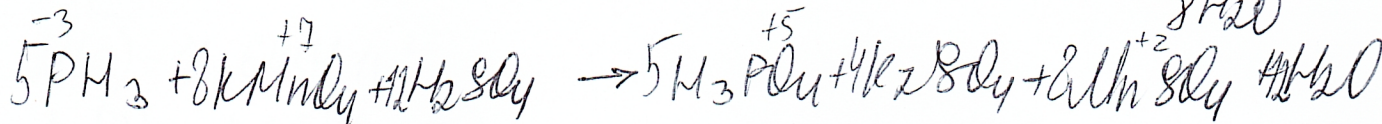


СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

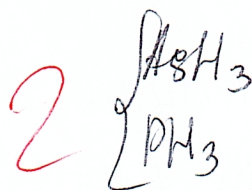
1 2 3 4 5

~~Менделеев, 2023-2024~~

5.1)

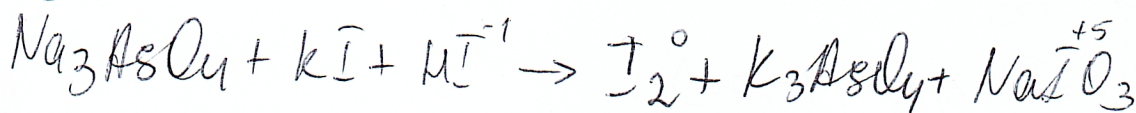
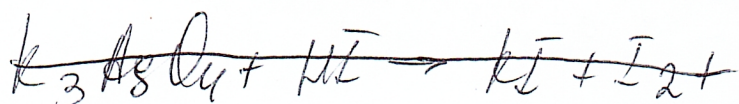


$$0 \text{ Ag}_3\text{PO}_4 = \frac{130}{419} = 0,31 \text{ моль}$$

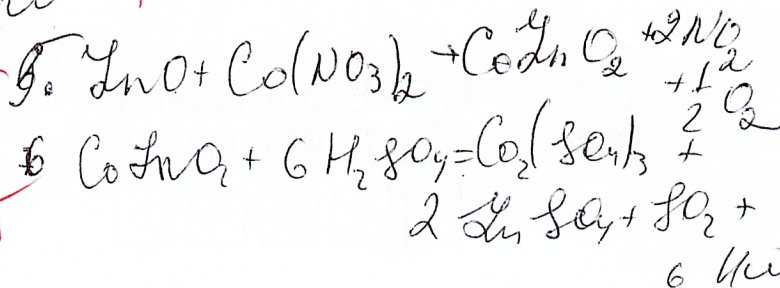
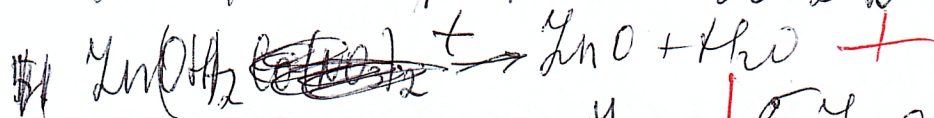
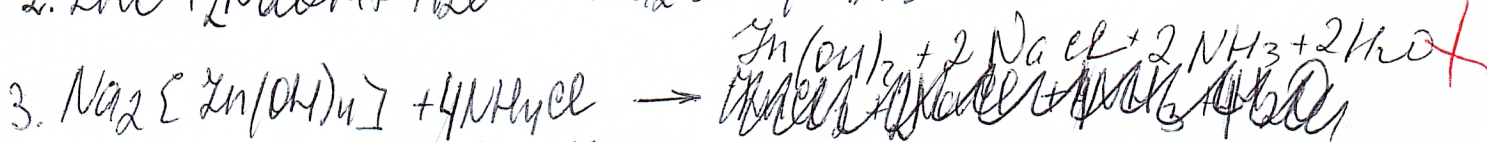
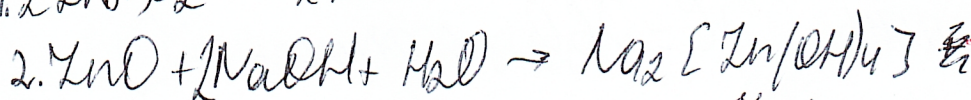
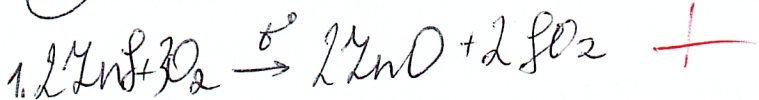


$$D_{\text{нр}} A_{\text{нр}} = 1,2164$$

$$1,2164 = \frac{x}{40}; x = 49$$



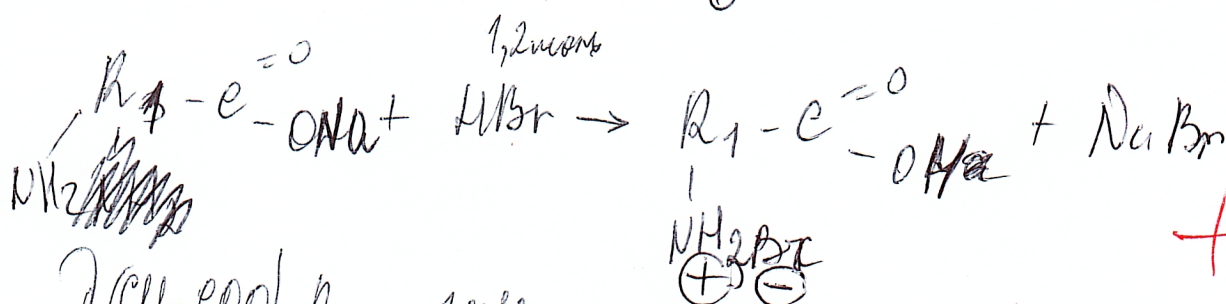
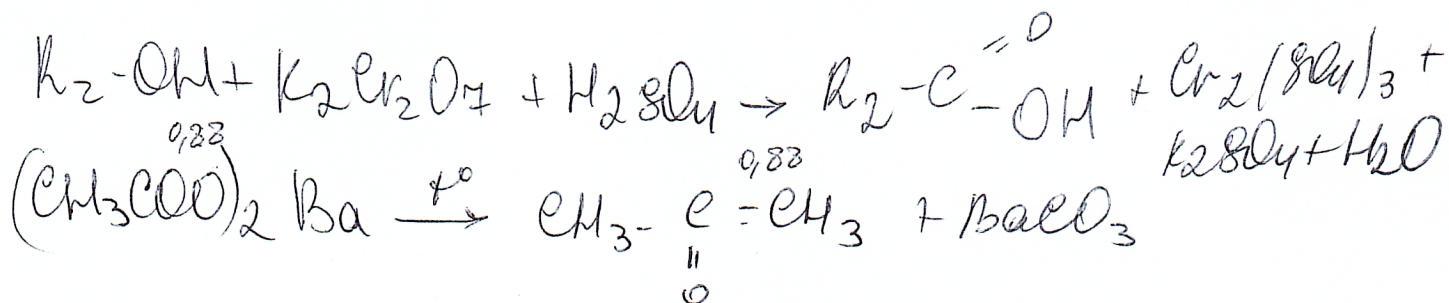
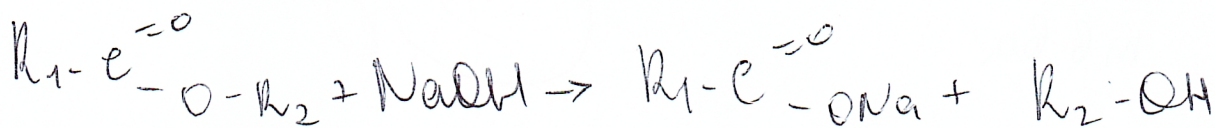
6.1)



СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

11X045

8.1)



$$\nu(CH_3COO)_2Ba = 204 \text{ (24+6+64+37)} = 0,88 \text{ моль}$$

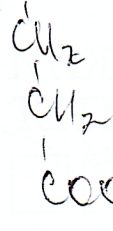
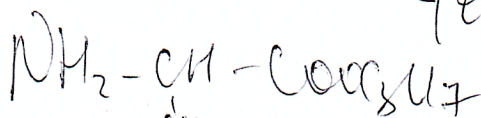
$$m \text{ CH}_3-C(=O)-CH_3 = 0,88 \cdot 58 = 51,04 \text{ г}$$

$$\nu HBr = \frac{97,2}{81} = 1,2 \text{ моль}$$

$$\nu R_1-C(=O)-O-R_2 = \frac{92,4}{0,4} = 231$$

$$\Rightarrow 2 - COOH$$

$$M = \frac{92,4}{0,4} = 231 \quad M(X) = 28$$

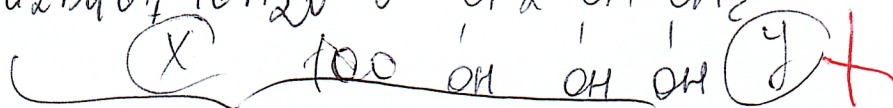


СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

111045

2.1

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ в $\text{CH}_2-\text{CH}-\text{CH}_2$



$w(\text{H}) = 0,08$

$382x + 92y = 100$

$20x + 8y = 8$

$0,08 = \frac{m_{\text{H}}}{m_{\text{в-ва}}}$

30

7.1



СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

11 x 045