

43 prof

1	2	3	4	5	6	7	8	9	10
1	10	8			10	12	12		20

3. $V = h \cdot \pi \cdot R^2 = 1570$

$V' = 0,6 \cdot 1570 = 942$

$V = 15,5 \cdot 0,942 = 14,6$

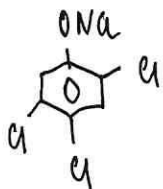
$\nu(MH_3) = \frac{14,6}{22,4} = 0,652$

$c(MH_3) = 0,692 \text{ моль/л}$

$pH(MH_3) = 14 - \frac{1}{2}(pK_b - \lg c(MH_3)) = 11,5$

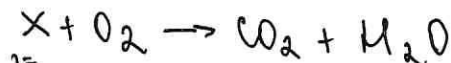
+ 8.

1. 1



+ (1)

2. 1



$v = 7,42 \quad v = 8,96 \quad m = 92$

$\nu(CO_2) = \frac{8,96}{22,4} = 0,4 \text{ моль}$

$\nu(C) = \nu(CO_2) = 0,4 \text{ моль}, m(C) = 0,4 \cdot 12 = 4,82$

$\nu(H_2O) = \frac{9}{18} = 0,5 \text{ моль}$

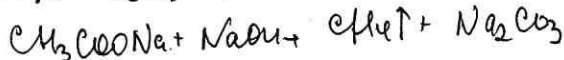
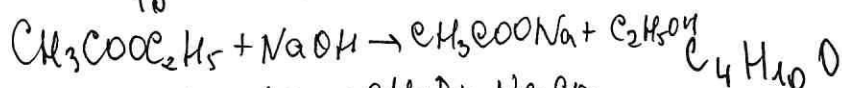
$\nu(H) = 2\nu(H_2O) = 1 \text{ моль}, m(H) = 12$

$\nu(O) = 7,4 - 1 - 4,8 = 1,62$

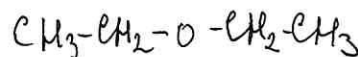
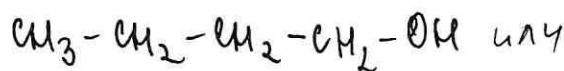
$\nu(O) = \frac{1,6}{16} = 0,1 \text{ моль}$

$C_x H_y O_z \quad x:y:z = 0,4:1; 0,1 \quad | :0,1$
4 10 1

+ 10



$m(CH_3COOC_2H_5) = 9,416$



$m(C_2H_5-O-C_2H_5) = 5,584$

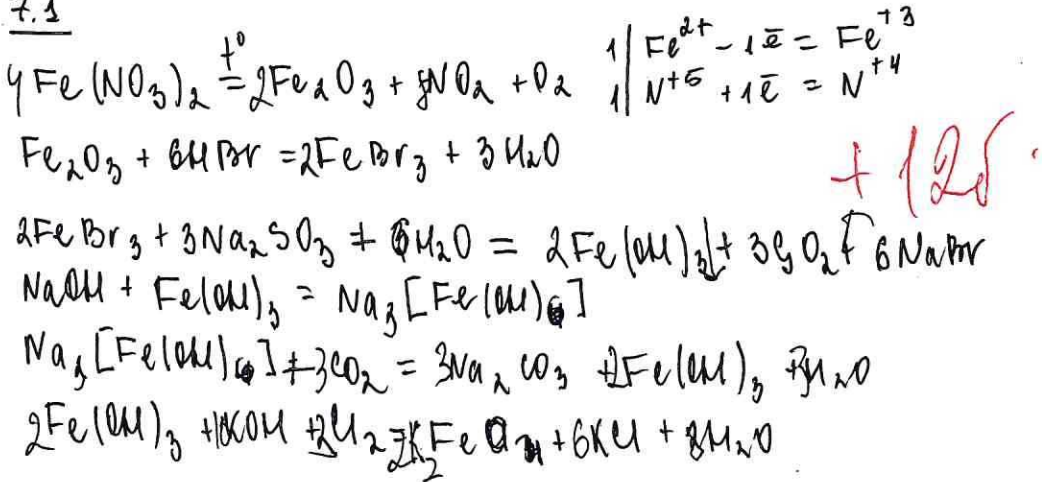
$\omega(C_2H_5-O-C_2H_5) = 37,2\%$



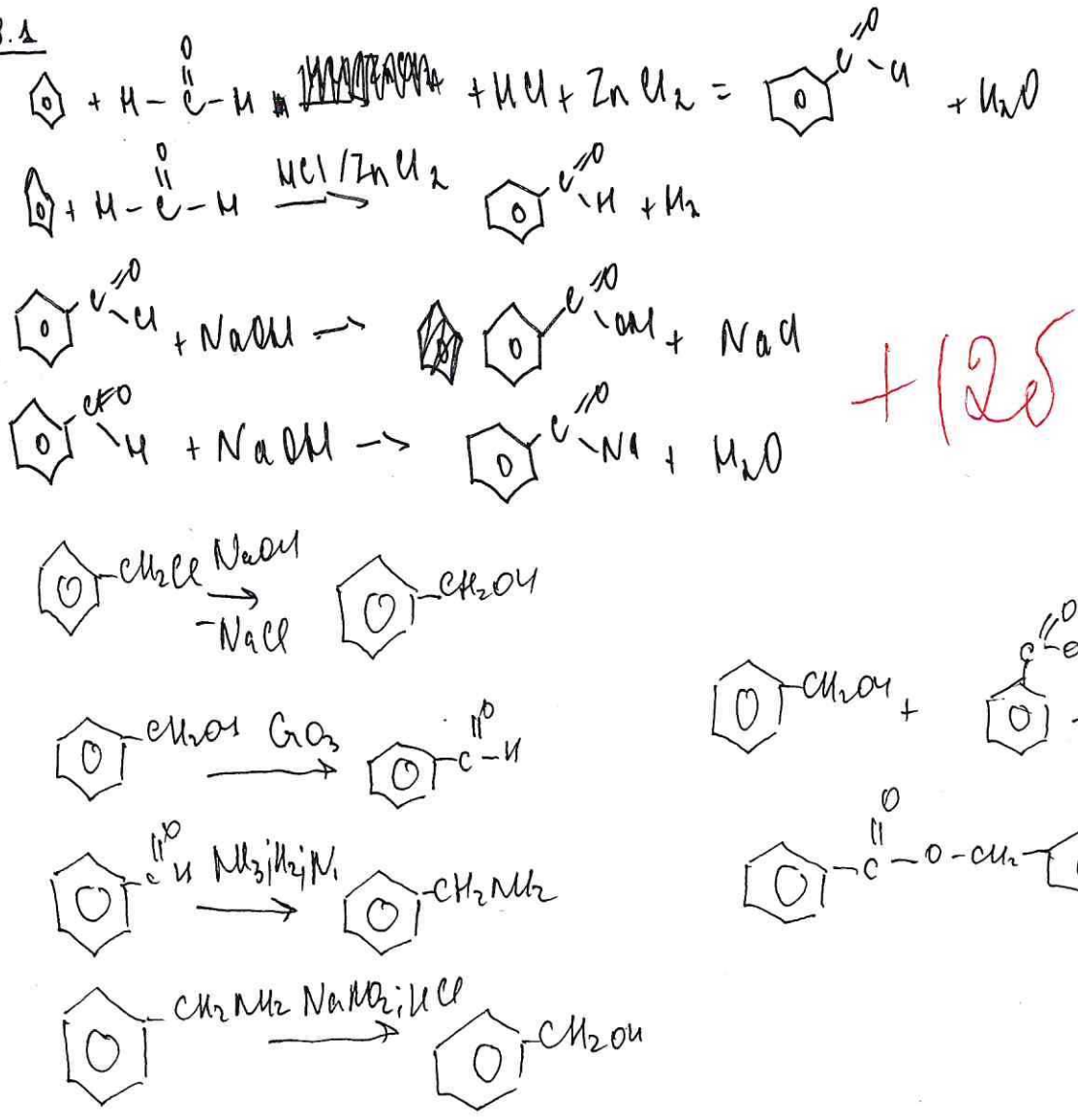
СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

11X002

7.1



8.1



6.1 $M(\text{ce-MH}_3\text{-CH-COOH}) = \frac{35,5}{0,2254} = 157,5$

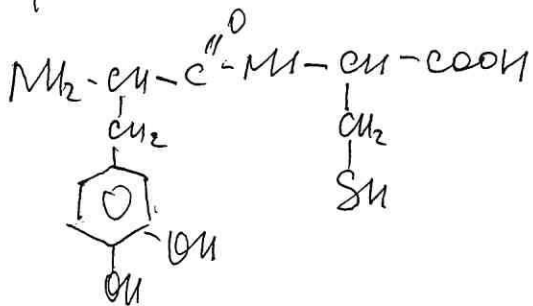
$M(R) = 157,5 \cdot 36,5 - 74 = 47 \rightarrow -\text{CH}_2\text{SH (cys)}$



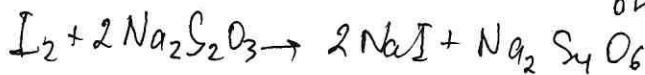
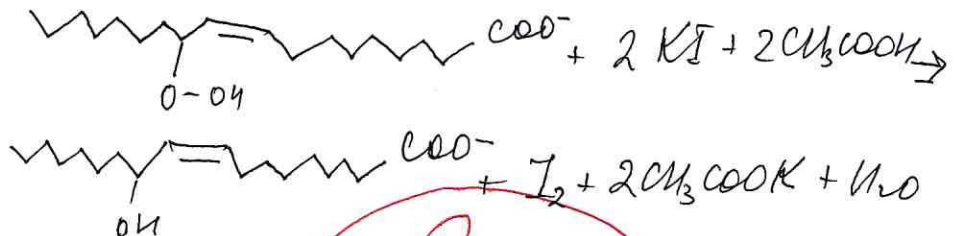
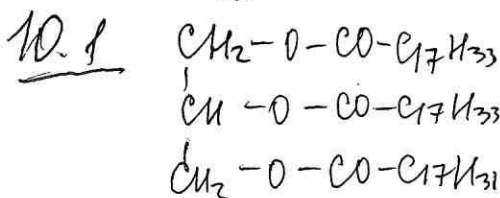
$M(\Delta \cdot \text{HCl}) = \frac{35,5}{0,105499} = 336,5$

$M(\Delta) = 336,5 - 36,5 = 300$

$M(\text{AK}) = M(\Delta) + M(\text{H}_2\text{O}) - M(\text{Cys}) = 197$



+108



$V(\text{Na}_2\text{S}_2\text{O}_3) = 0,024$

$V(\text{I}_2) = \frac{0,024}{2} = 0,012$

$V(\text{O}) = 0,012 \cdot 8 \cdot 1000 = 96$
 $214 - 81000 =$
 OK!

$\omega(\text{O}) = 3,84 \%$

208 +

