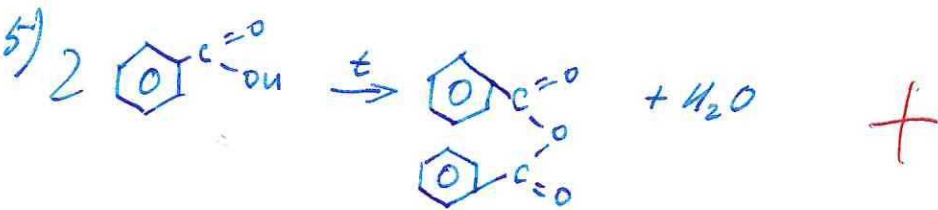
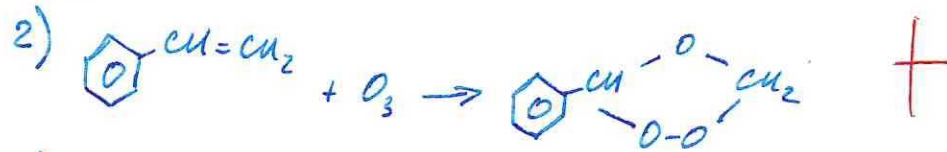
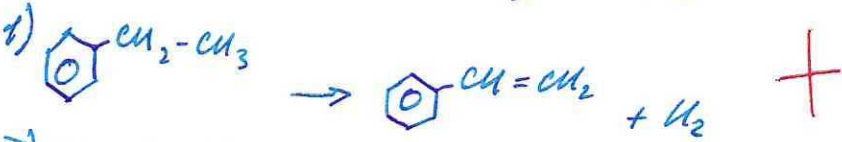
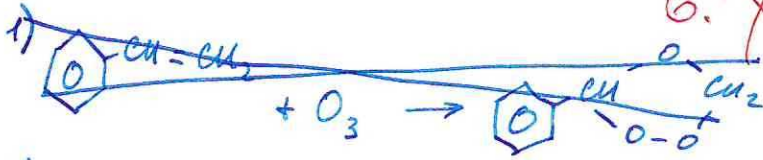


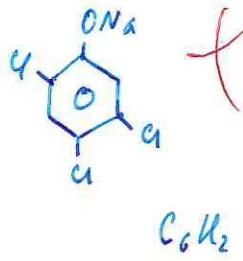
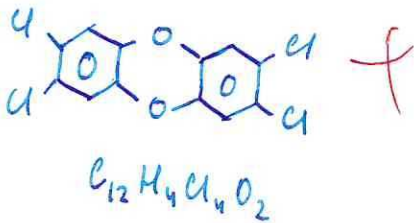
Задача 8.4

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

57 *ful*



Задача 1.4



$$\nu(C_{12}H_4Cl_4O_2) = x$$

$$\nu(C_6H_2Cl_3ONa) = y$$

$$m(C_{12}H_4Cl_4O_2) = 322x$$

$$m(C_6H_2Cl_3ONa) = 219,5y$$

$$\text{сумма (Cl)} = 4x + 3y$$

$$\text{сумма (O)} = 2x + y$$

$$\frac{4x + 3y}{2x + y} = 2,2$$

$$4x + 3y = 2,2(2x + y)$$

$$4x + 3y = 4,4x + 2,2y$$

$$0,8y = 0,4x$$

$$y = 0,5x$$

$$\omega(C_{12}H_4Cl_4O_2) = \frac{322x}{322x + 219,5y} = \frac{322x}{322x + 219,5 \cdot 0,5x} = 0,74$$

$$\omega(C_{12}H_4Cl_4O_2) = 74\%$$

$$\omega(C_6H_2Cl_3ONa) = 26\%$$



Задача 3.4

$V_{H_2} = 30 \cdot 3,5^2 \cdot 3,14 = 1153,95 \text{ см}^3$ +

$V(H_2O) = 1153,95 \cdot 0,7 = 807,765 \text{ мл}$

$C(\text{укс. кислоты}) = \frac{65 \cdot 1,0666 \cdot 50}{60} = 57,77 \frac{\text{моль}}{\text{мл}}$ +

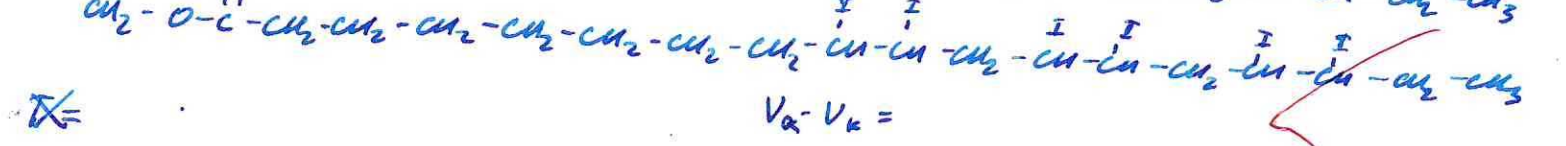
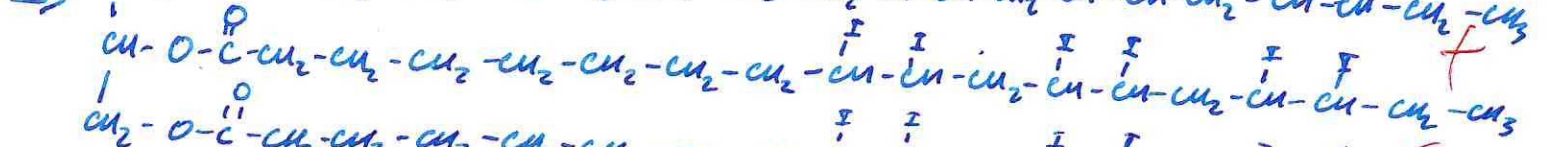
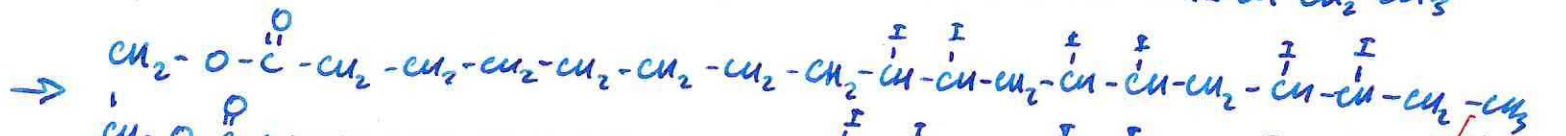
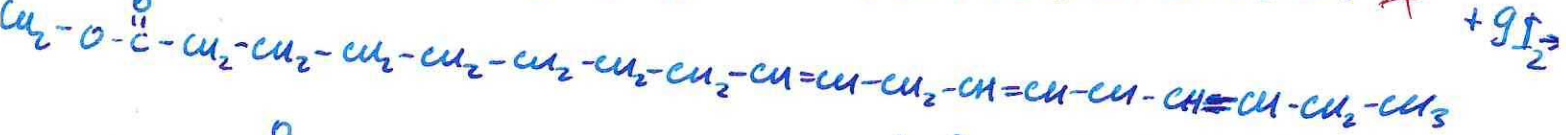
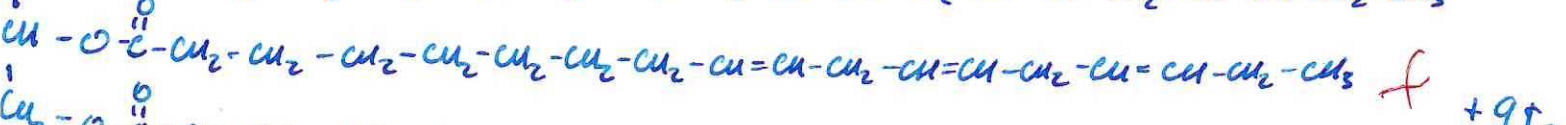
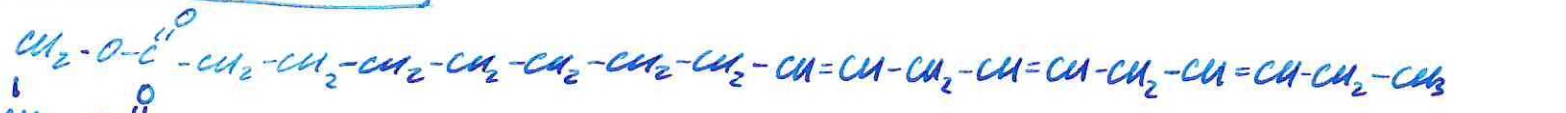
~~Иногда =~~

$\int(\text{укс. кислоты}) = 57,77 \cdot 807,765 = 46664 \text{ мл} = 46 \text{ л}$ +

$C_{\text{исход}} = \frac{46}{60} = 0,76 \frac{\text{моль}}{\text{л}}$ +

$pH = 0,5 (4,76 - \lg 0,76) = 2,44 \text{ л.}$ +

Задача 10.4

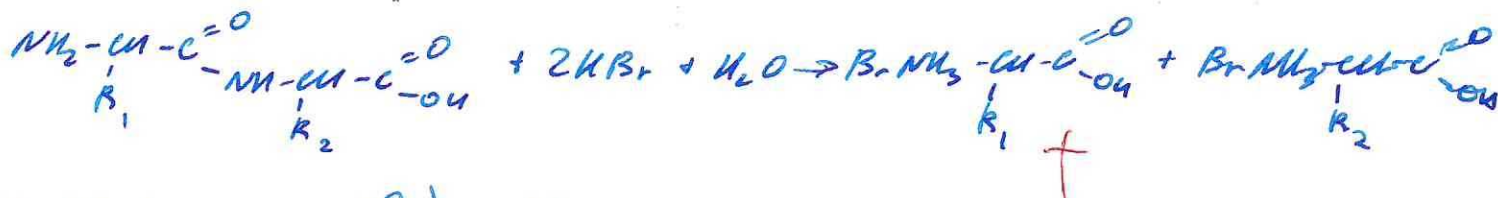


~~Иногда =~~
~~Иногда =~~
 $V_{\alpha} - V_{\beta} =$
OO

$T =$
 $I_{\alpha} =$



Задача 6.4



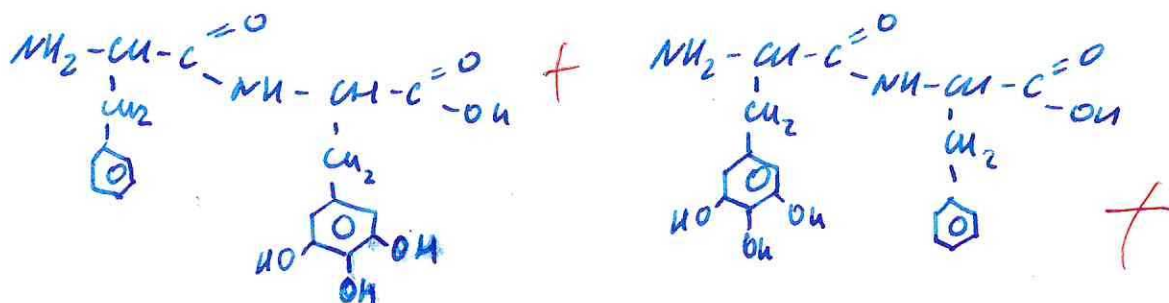
$$M(\text{Br}-\underset{\text{R}_1}{\text{CH}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}) = \frac{80}{0,3252} = 246 \text{ г/моль}$$

$$M(\text{R}_1) = 246 - 81 - 74 = 91 \text{ г/моль} \Rightarrow \text{C}_6\text{H}_5$$

$$\text{NH}_2-\underset{\text{C}_6\text{H}_5}{\text{CH}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH} - 165 \text{ г/моль}$$

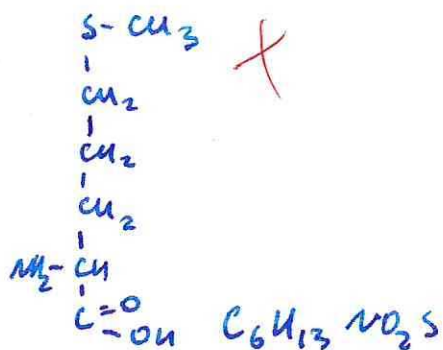
$$M(\text{Дипептида}) = \frac{80}{0,18141} = 440,99 \text{ г/моль}$$

$$M(\text{R}_2) = 216 \text{ г/моль}$$

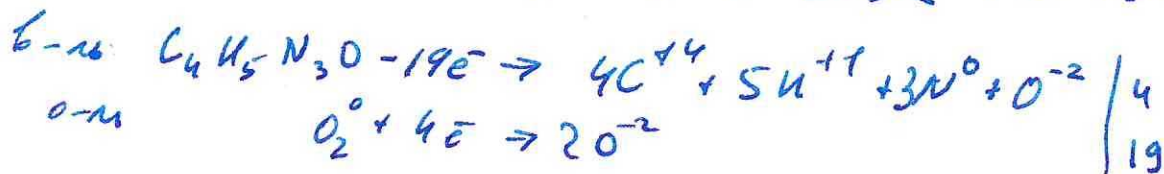
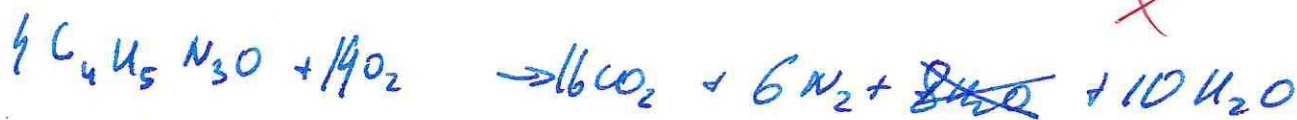
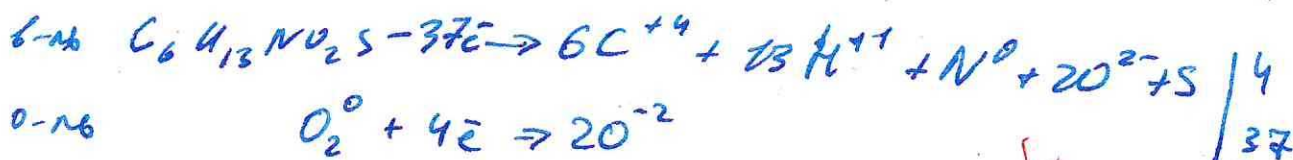
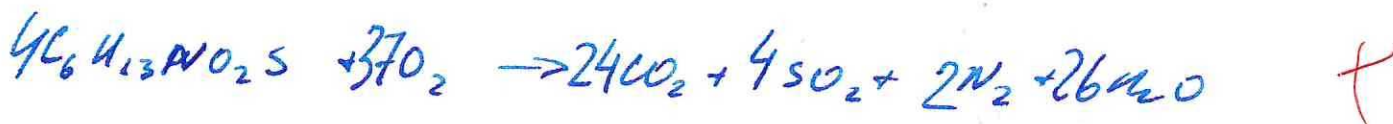
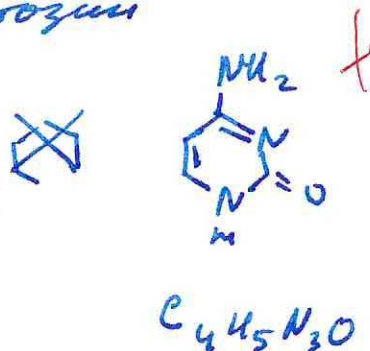


Задача 9.4 9.4

метанол



целлюлоза



$$\nu(\text{C}_6\text{H}_{13}\text{NO}_2\text{S}) = x$$

$$\nu(\text{CO}_2) = 6x$$

$$\nu(\text{N}_2)_1 = 0,5x$$

$$0,5x = 1,5y$$

$$\nu(\text{C}_4\text{H}_5\text{N}_3\text{O}) = 4$$

$$\nu(\text{SO}_2) = x$$

$$x = 3y$$

$$\nu(\text{CO}_2)_2 = 12x$$

$$\nu(\text{N}_2)_2 = 1,5y$$

$$\nu(\text{CaCO}_3) = \nu(\text{CO}_2)_1 = 6x$$



$$\nu(\text{CaCO}_3) = 100 \cdot 6x = 600 \cdot 3y = 1800y$$

$$\nu(\text{CaSO}_3) = \nu(\text{SO}_2) = x$$

$$\nu(\text{CaSO}_3) = 3y \cdot 120 = 360y$$

$$m(\text{ос.1}) = 2160y$$

$$\nu(\text{CaCO}_3) = \nu(\text{CO}_2)_2 = 12x$$

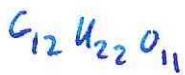
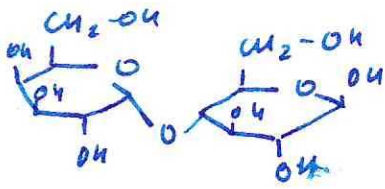
$$\nu(\text{CaCO}_3) = 100 \cdot 4y = 400y$$

$$\frac{m(\text{ос.1})}{m(\text{ос.2})} = \frac{2160y}{400y} = 5,4 \quad \text{в } 5,4 \text{ раза}$$

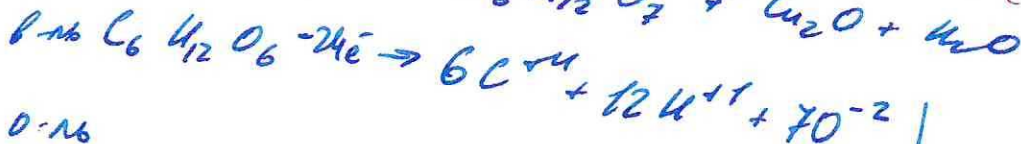
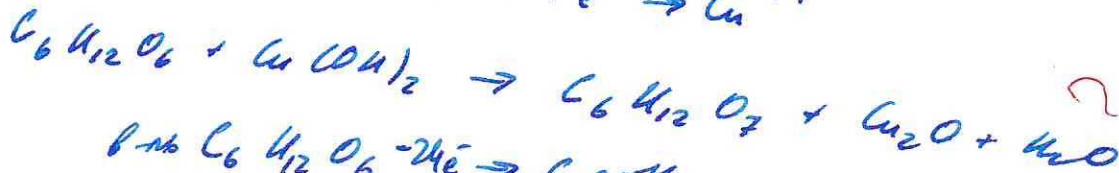
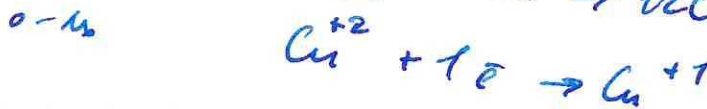
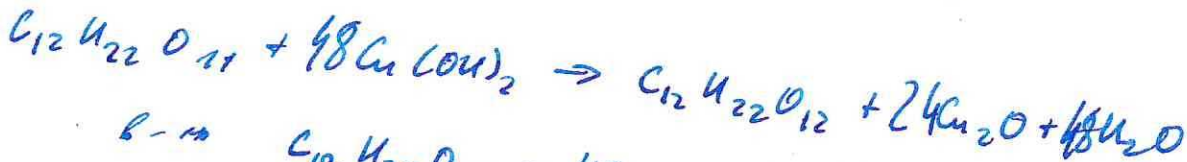
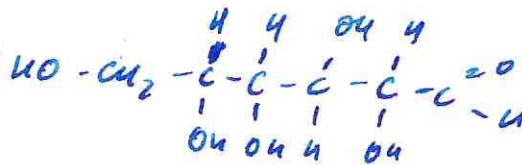


Задача 4.4

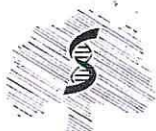
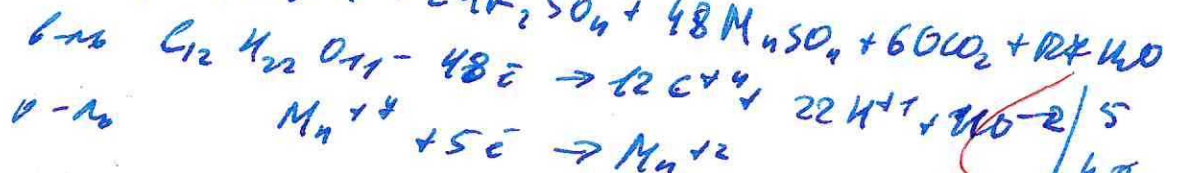
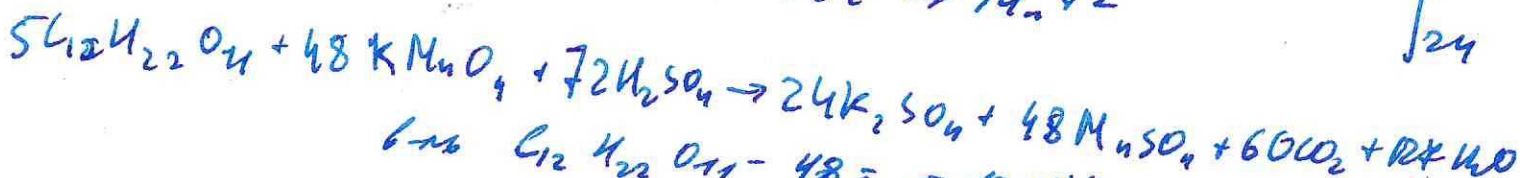
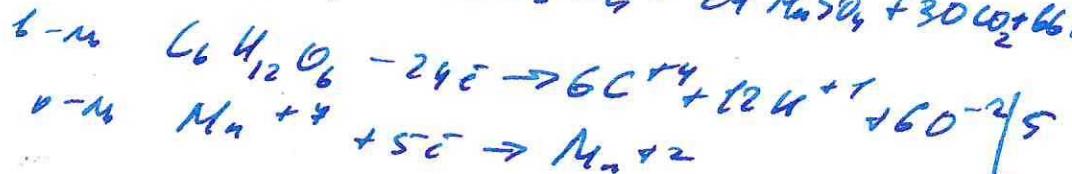
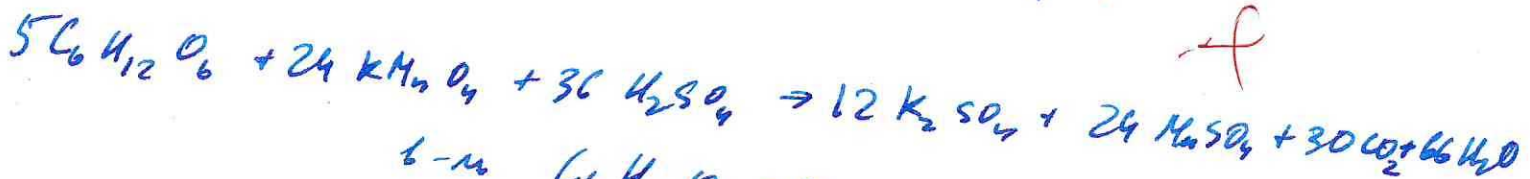
мальтоза



глюкоза



о-м



СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

