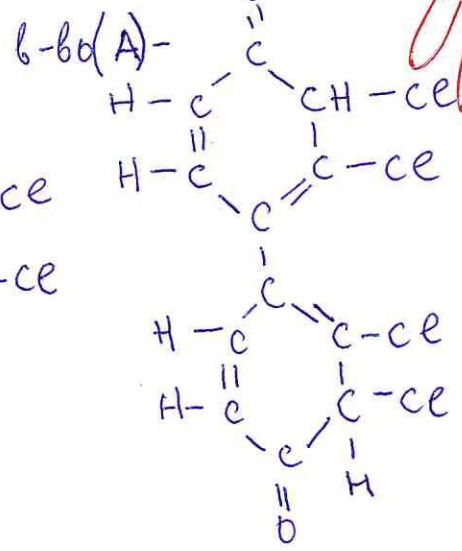
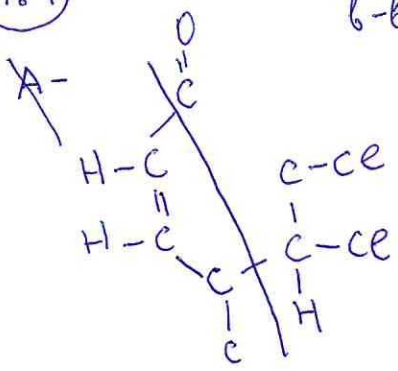


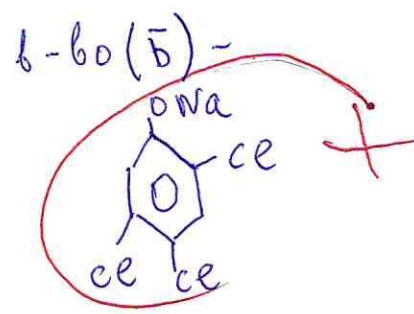
*Handwritten signature*

1.4



$M = 324 \text{ г/моль}$   
 $w(C) = 44,44\%$   
 $w(H) = 1,85\%$   
 $w(O) = 9,88\%$   
 $w(Cl) = 43,83\%$

брутто-формула  
(молек.) ↓  
 $C_{12}H_6O_2Cl_4$



$M = 219,5 \text{ г/моль}$   
 $w(C) = 32,80\%$   
 $w(H) = 0,91\%$   
 $w(Cl) = 48,52\%$   
 $w(O) = 7,29\%$   
 $w(Na) = 10,48\%$

брутто-формула  
молек.  
↓  
 $C_6H_2ONaCl_3$

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

2.4

$\nu(C) = \frac{14,72 \cdot 99,9}{295 \cdot 8,14} = 0,61 \text{ моль}$

по гр.  
м-к.

$\nu(H) = \frac{13,5}{18} \cdot 2 = 1,5 \text{ моль}$

$m(O) = 11,1 - 12 \cdot 0,61 - 1,5 = 2,28 \text{ г}$

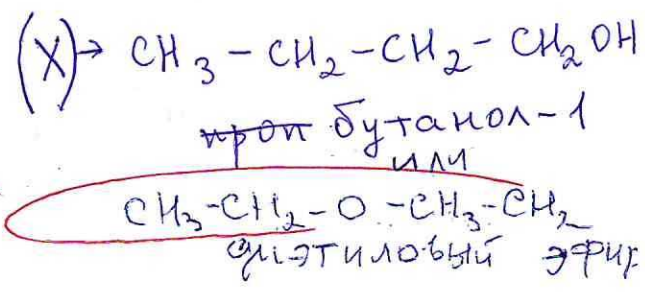
$\nu(O) = \frac{2,28}{16} = 0,1425 \text{ моль}$

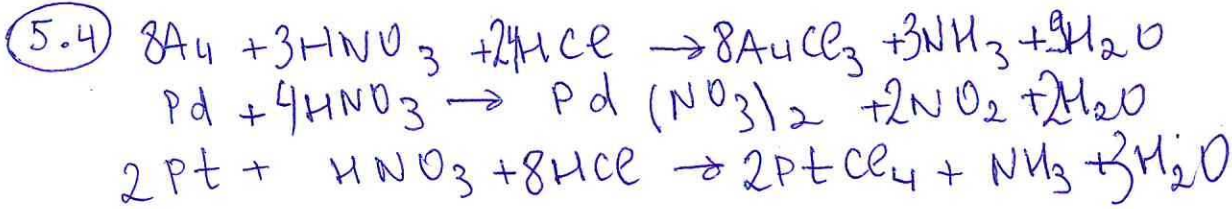
$\nu(C) : \nu(H) : \nu(O)$   
 $0,61 : 1,5 : 0,1425$



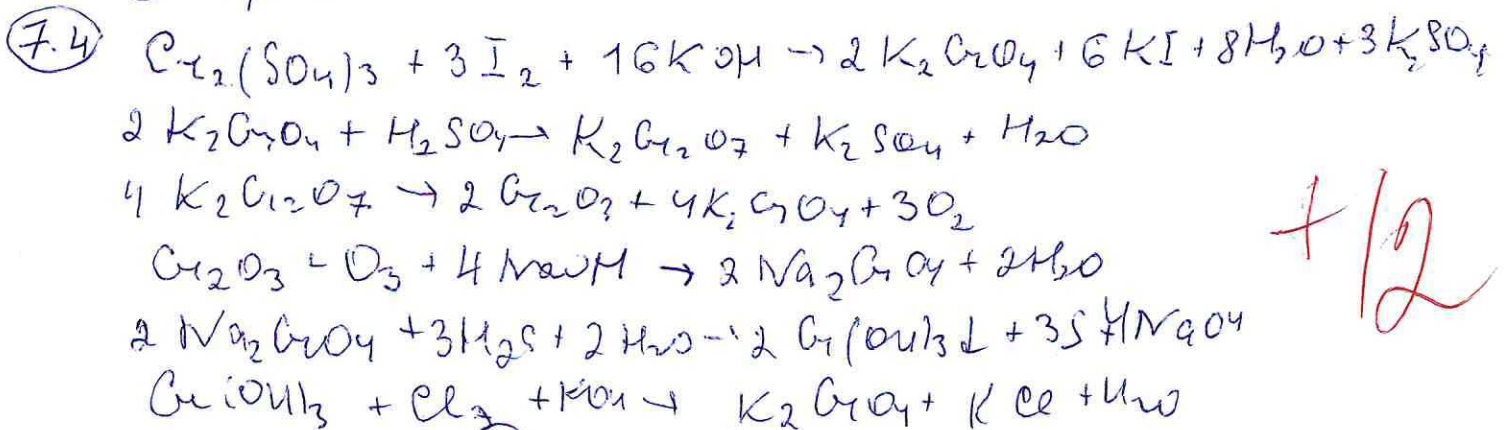
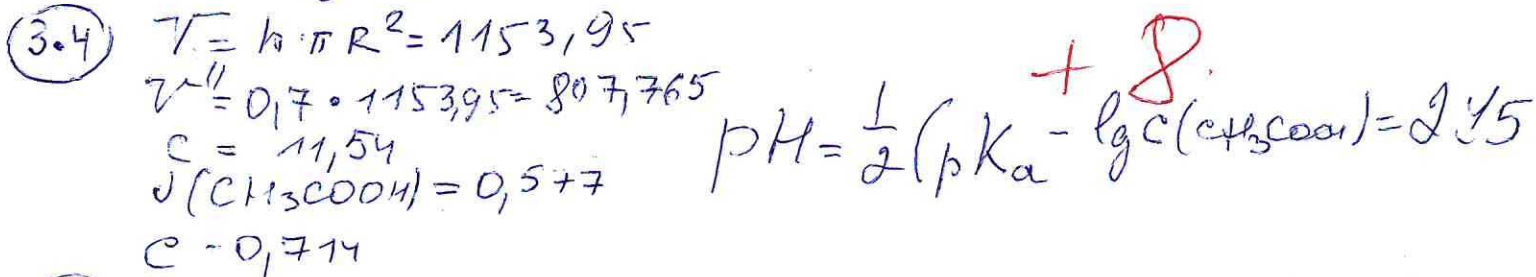
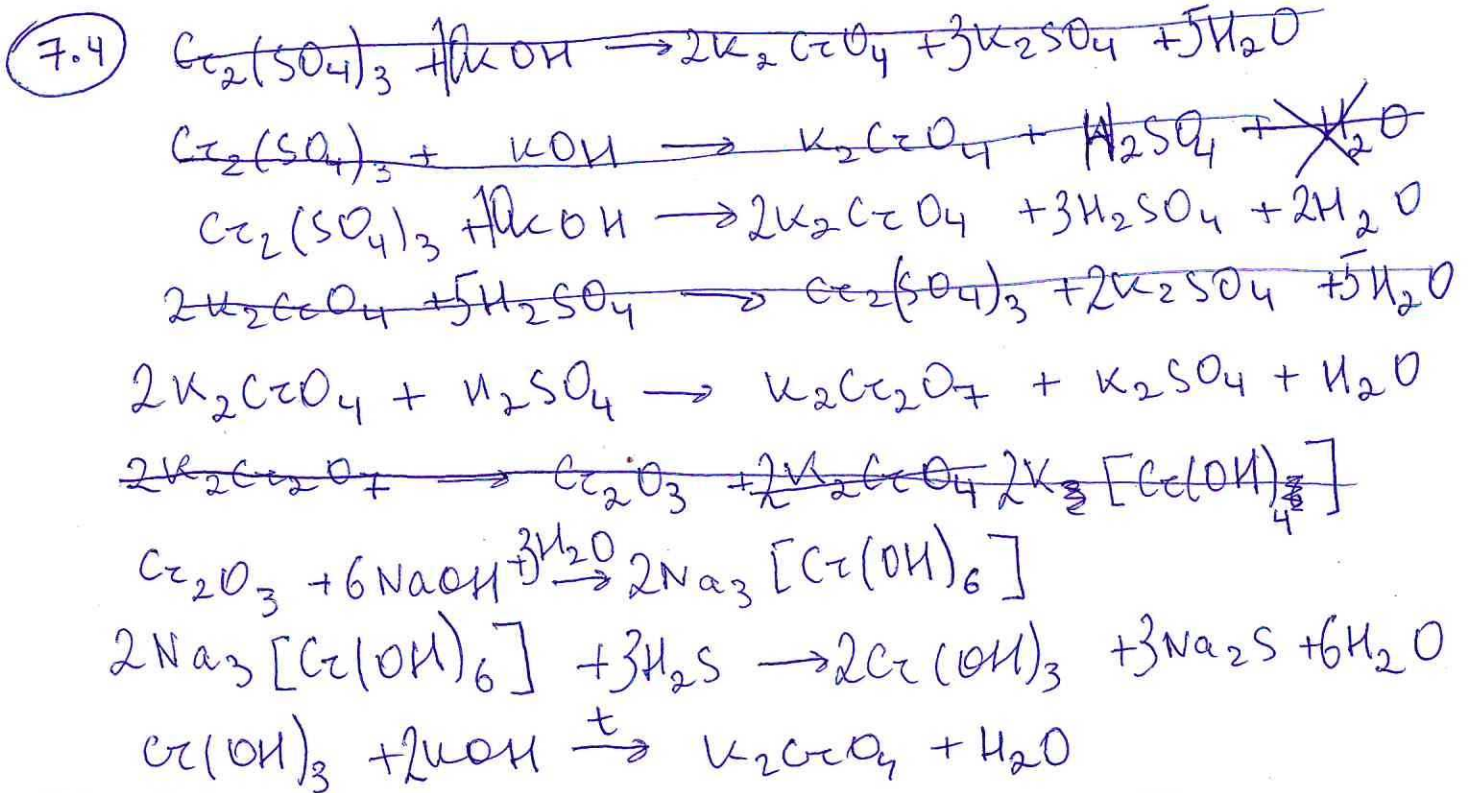
$V = \frac{m}{M} \cdot \frac{RT}{P}$   
 ↓  
 (V)

+5



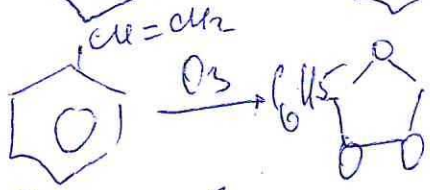
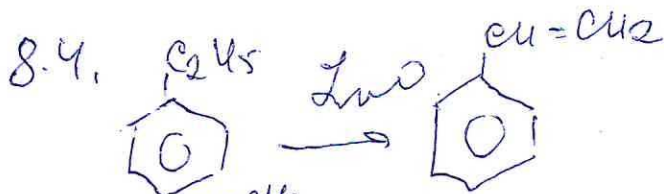


3

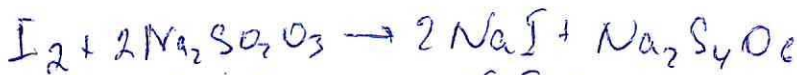
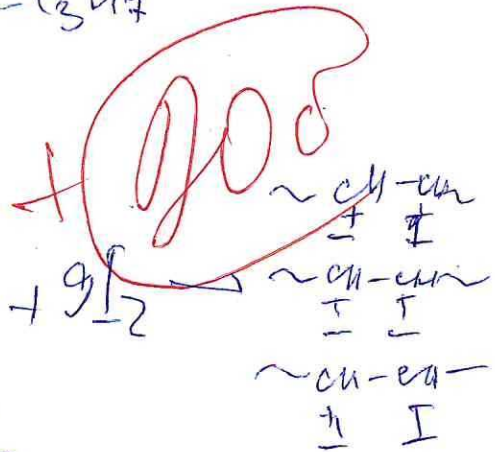
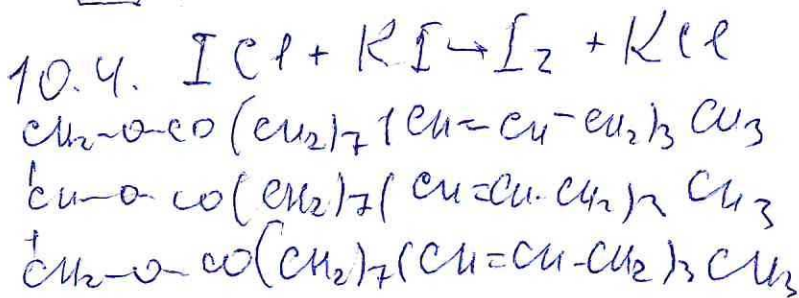
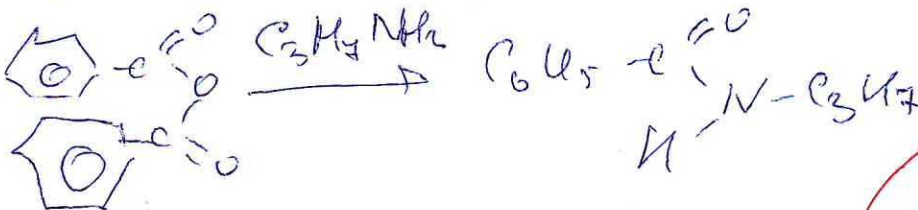
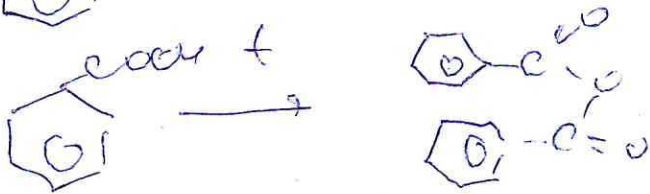
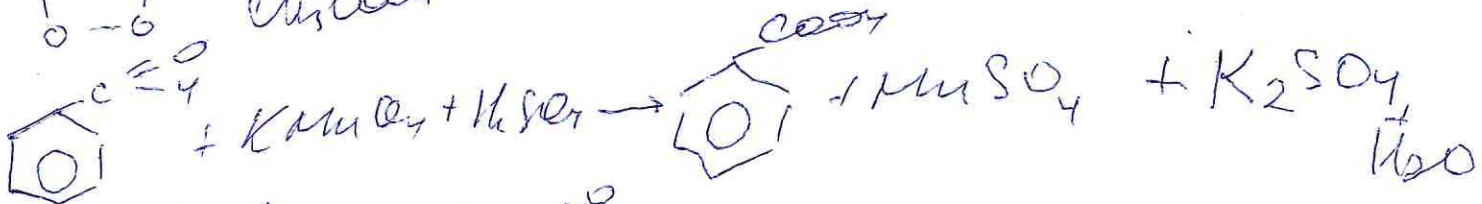


+12





+ 12.



$v(I_2) = 2$  моль  $v(I_2) = 2$

$v(Na_2S_2O_3) = 4$   $v(I_2) = 2$

$v(Na_2S_2O_3)_{\text{окс}} = 2 \cdot 2$   $v(I_2) = 11$   $m(I_2) = 0,9 \cdot 254 = 228,6$  —  
не год.

$v(C_{17}H_{29}COOH) = 0,3$

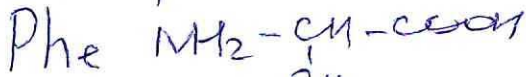
$m(C_{17}H_{29}COOH) = 83,4$

$\omega(C_{17}H_{29}COOH) = 83,4\%$



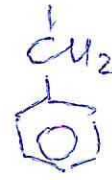
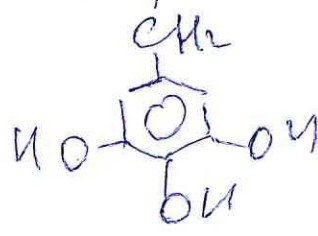
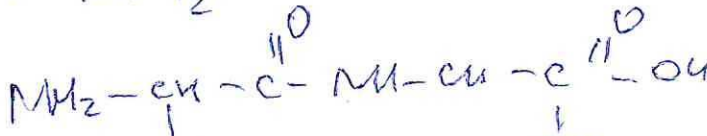
Б.Ч. R  
 $M(\text{В}_2\text{М}_3 - \overset{\text{R}}{\text{СН}} - \text{СООН}) = 0,3252 = 246 \text{ г/мол}$

$M(\text{АК})_1 = 165 \quad M(\text{R}) = 165 - 74 = 91$



$M(\text{АК})_2 = 360 - 18 - 165 = 213$

$M(\text{R}) = 139$



108

