

Задача №1

А: А - 1 наименьший элемент в невозрастающей части.

А: А - 3 наименьших элемента в невозрастающей части

Всго - 3 у А: А - 36 элементов

36 : 3 = 12

Ответ: А: А.

1	2	3	4	5	6
6	8	18	21	6	13

Σ 72 (сумма гва)
Уа m

Задание №2

- 1) $[Ag(NH_3)_2]OH$ — гидроксид диамминсеребра (I)
- 2) $(NH_4)_2S_2O_8$ — пероксодисульфат аммония.
- 3) CH_3COONH_4 — ацетат аммония
пиридинийаммоний
- 4) $Na_3[Fe(SCN)_6]$ — ~~гексахлороферрат~~ (III) натрия

Задача №3

X - N

Y - S

$$M(\text{HHH}) = 13M(\text{C}) + 16M(\text{H}) + 4M(\text{O}) + M(\text{S}) + 5M(\text{N}) + M(\text{Z}) = 310,354 \frac{\text{г}}{\text{моль}} + M(\text{Z})$$

$$M(\text{HHH}) - M(\text{Z}) = (1 - 0,069)M(\text{HHH}) = 310,354 \frac{\text{г}}{\text{моль}}$$

$$M(\text{HHH}) = 333,355 \frac{\text{г}}{\text{моль}}$$

$$M(\text{Z}) = M(\text{HHH}) - (M(\text{HHH}) - 2M(\text{Z})) = 23,002 \frac{\text{г}}{\text{моль}} = M(\text{Na})$$

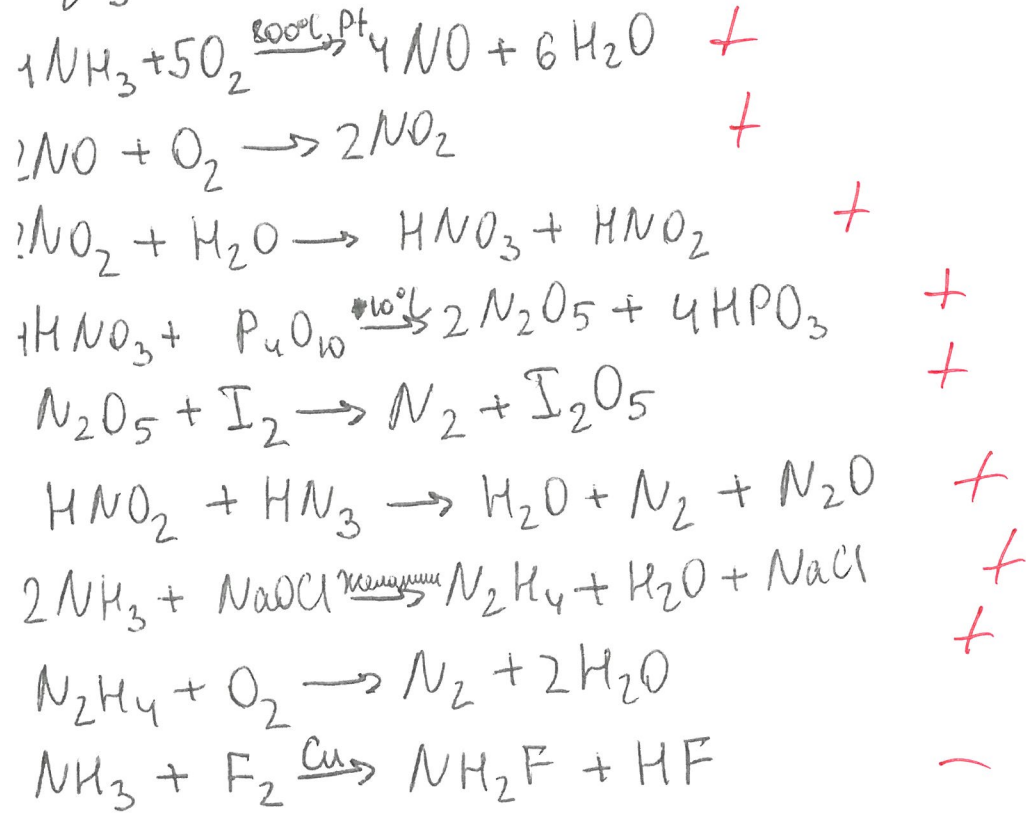
Зм. Z - Na

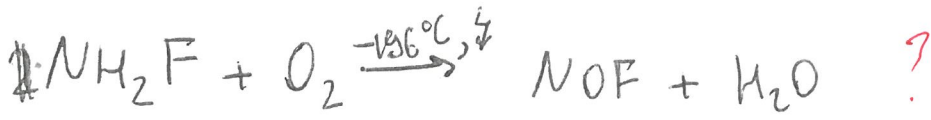
Ответ: X - N; Y - S; Z - Na

Загадки №4

- А - NH₃ +
- Б - NO₂ +
- В - ~~N₂H₄~~ HNO₃ +
- Г - HNO₂ +
- Д - N₂O₅ +
- Е - N₂ +
- Ж - HN₃ +
- З - N₂O +
- И - N₂H₄ +
- К - NH₂F -
- Л - NOF ?
- М - NaCN +
- Н - HCN +

~~NH₃~~ ^{800°C Pt}



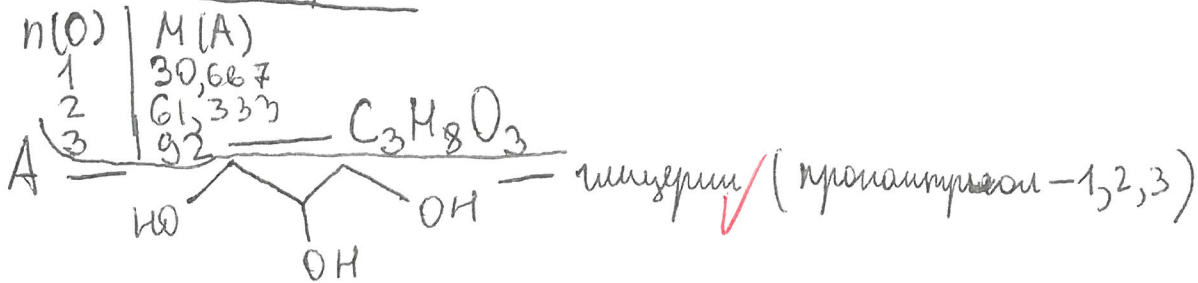


Задача №5

$n(\text{NaOH}) = n_{\text{экв}}(\text{глицерин})$

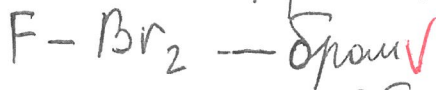
$n(\text{NaOH}) = c(\text{NaOH}) \cdot V(\text{NaOH}) = 0,36 \text{ л} \cdot 1 \text{ М} = 0,36 \text{ моль} \checkmark$

$M_{\text{экв}} = \frac{m_{\text{экв}}}{n_{\text{экв}}} = \frac{99,842}{0,36 \text{ моль}} = 277,333 \frac{\text{г}}{\text{моль}}$ (если 1 функциональная группа)



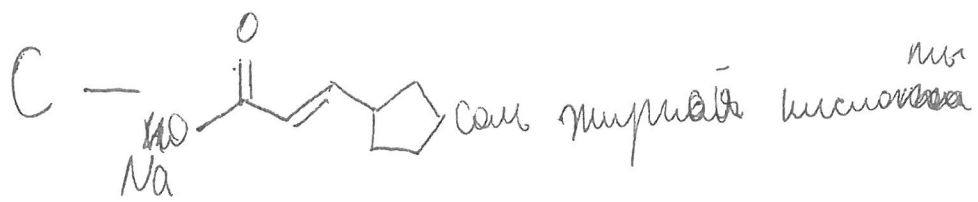
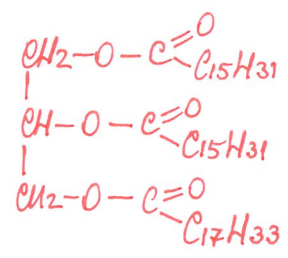
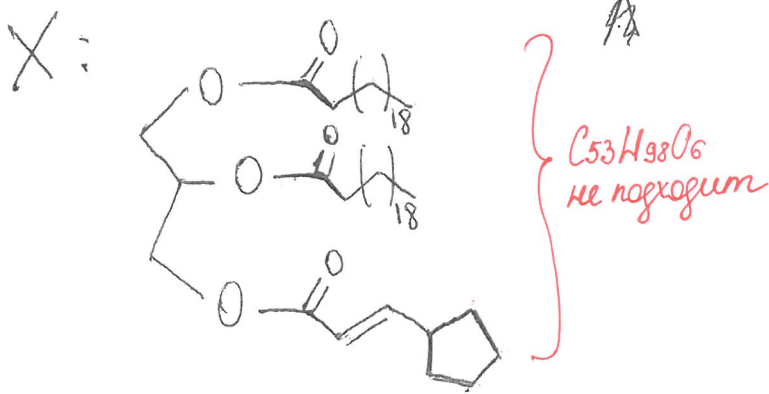
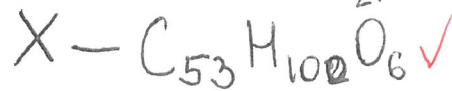
$M_{\text{экв}}(3) = \frac{m_{\text{экв}} \cdot 3}{n(\text{NaOH})} = \frac{99,842 \cdot 3}{0,36 \text{ моль}} = 832 \frac{\text{г}}{\text{моль}} \checkmark$

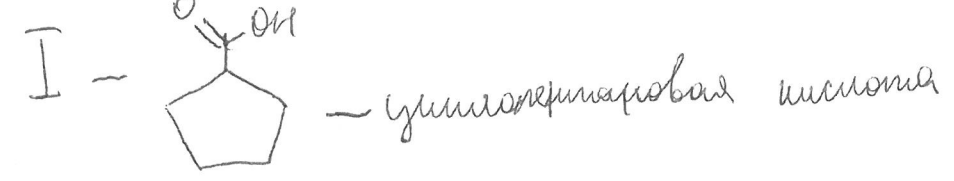
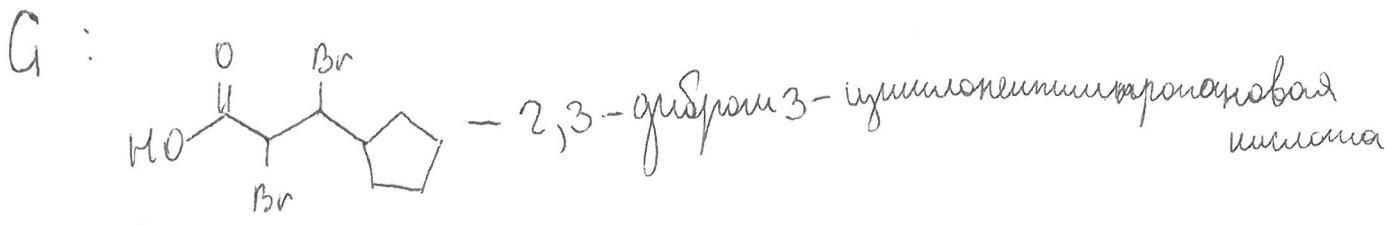
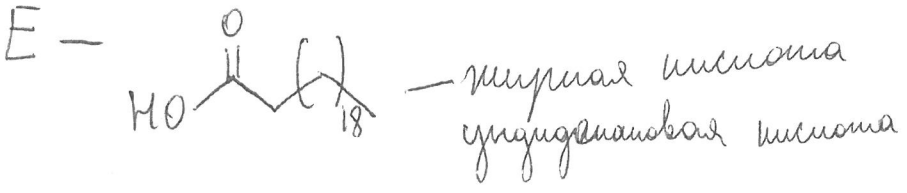
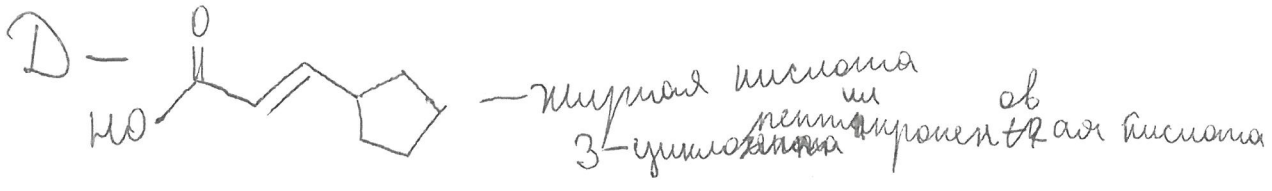
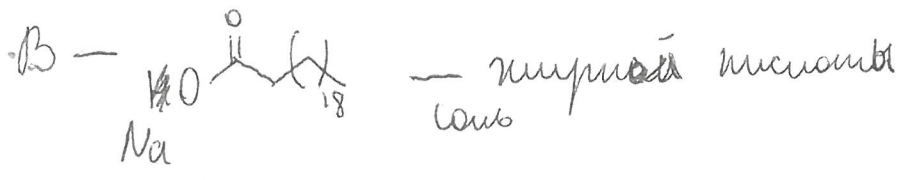
$n_{\text{экв}} = \frac{m_{\text{экв}}}{M_{\text{экв}}} = \frac{99,842}{832 \frac{\text{г}}{\text{моль}}} = 0,12 \text{ моль}$



$m(\text{Br}_2) = m_{\text{р-р}} \cdot \omega_m(\text{Br}_2) = 960 \text{ г} \cdot 0,02 = 19,2 \text{ г}$

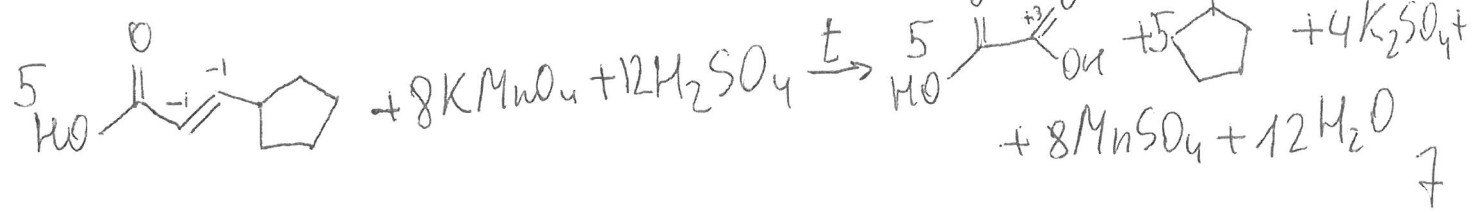
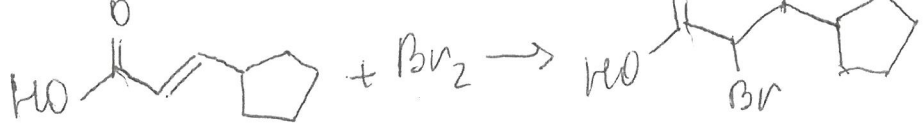
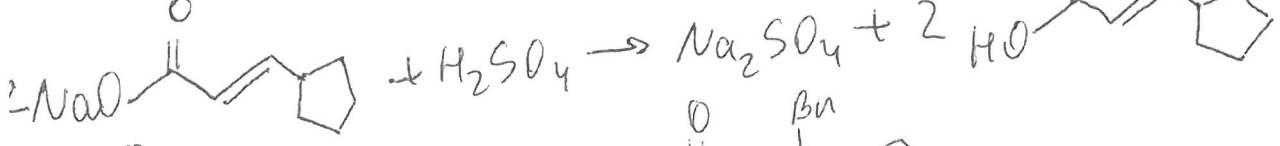
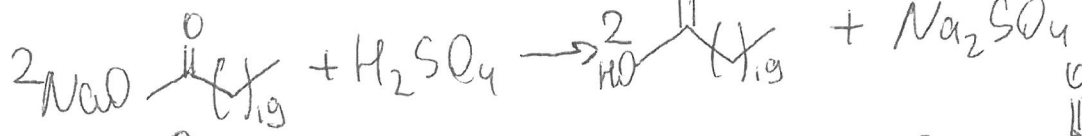
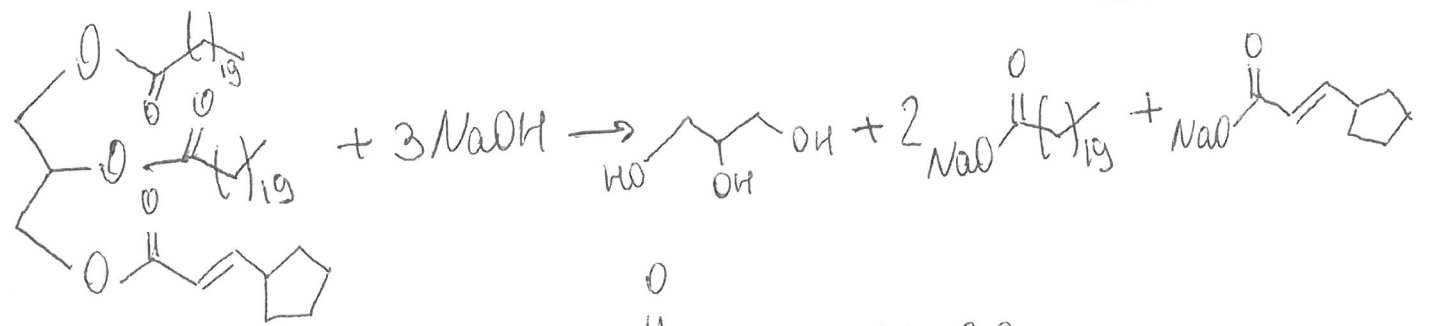
$n(\text{Br}_2) = \frac{m(\text{Br}_2)}{M(\text{Br}_2)} = \frac{19,2 \text{ г}}{160 \frac{\text{г}}{\text{моль}}} = 0,12 \text{ моль} = n_{\text{экв}} \checkmark$



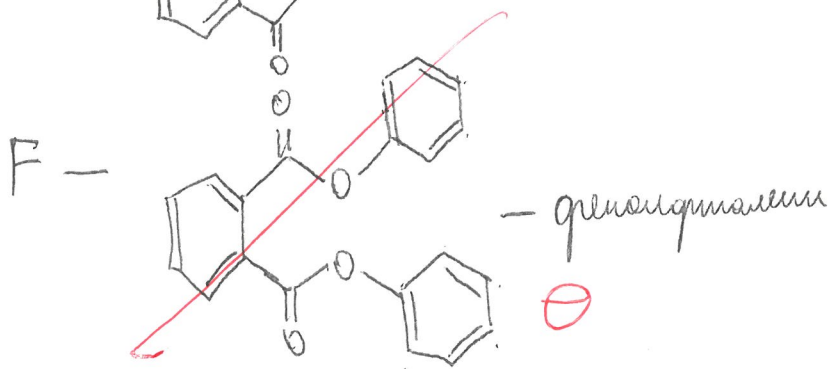
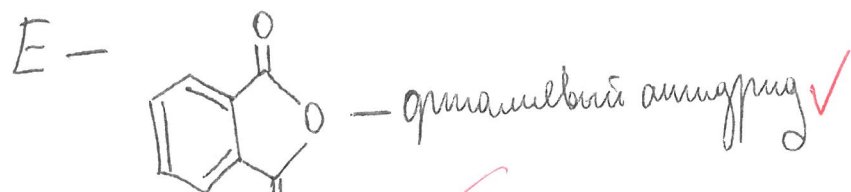
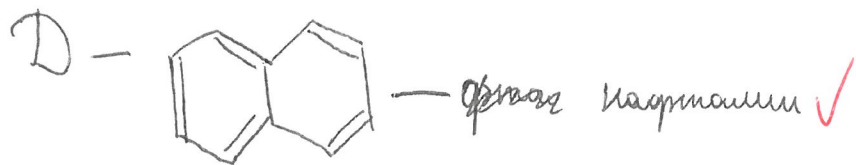
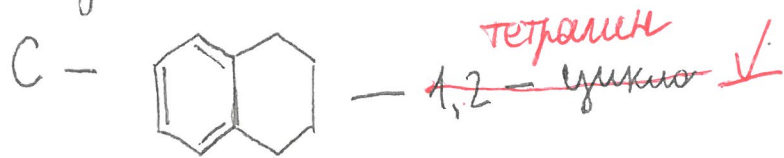


1) 4	2
2) 10	2(A, F)
3) 4	2

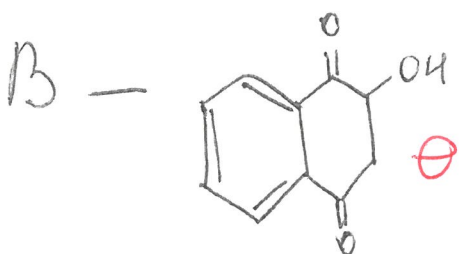
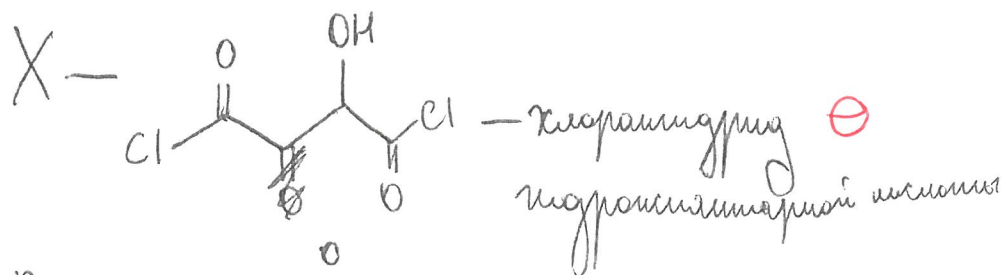
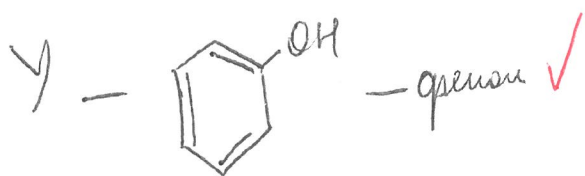
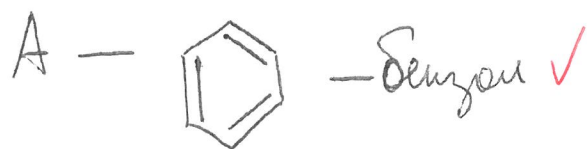
$\Sigma 60$

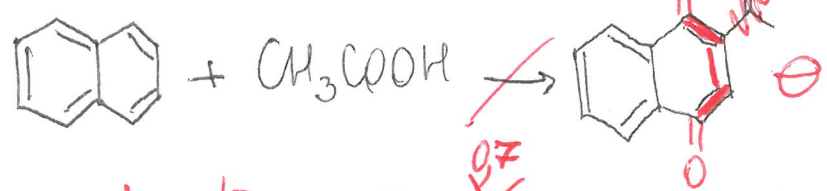
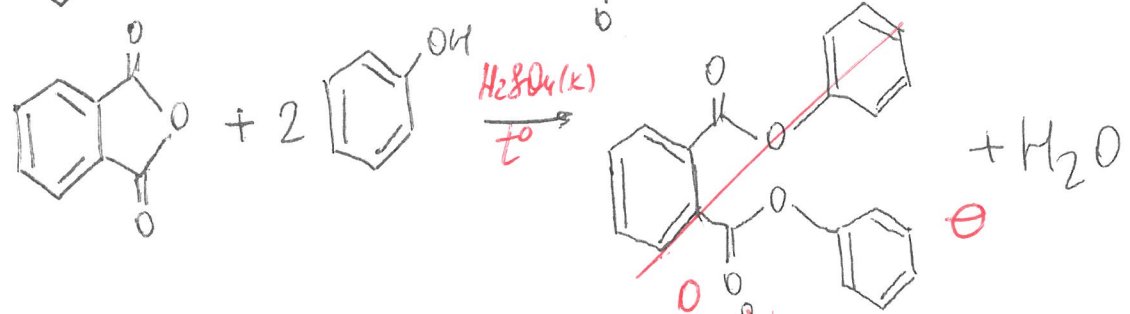
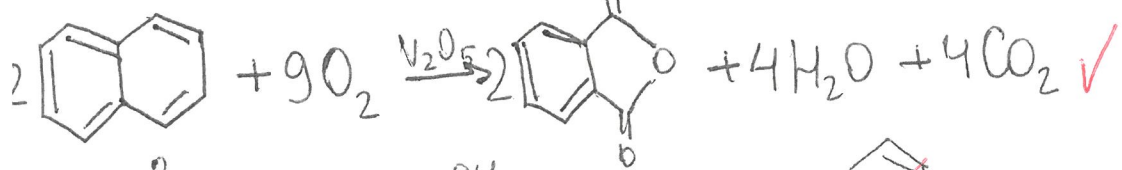
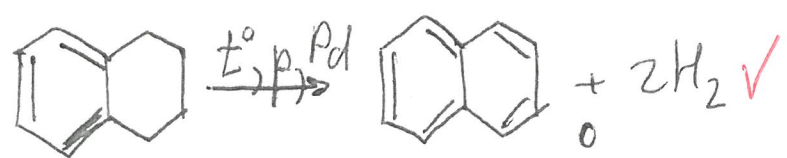
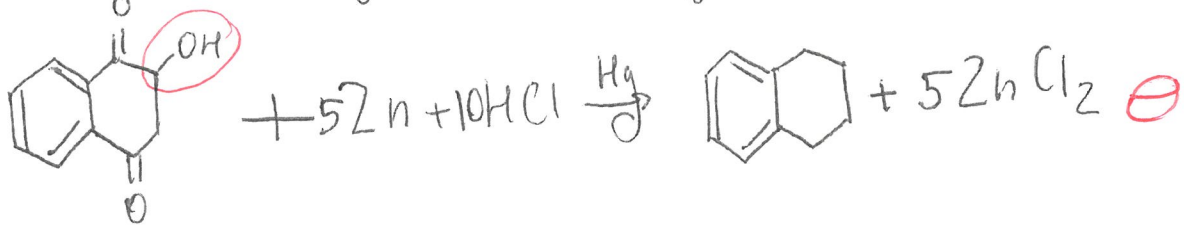
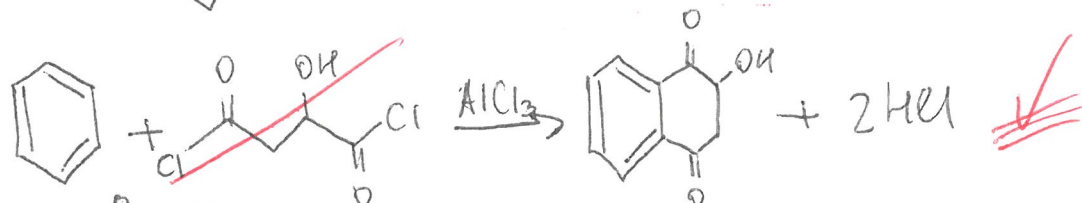
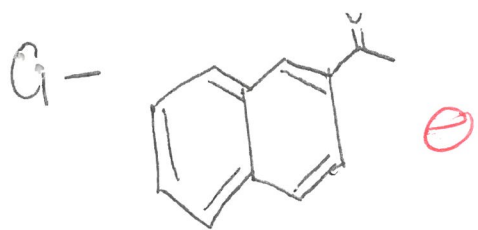


Задача №6



бензойная - малиновый
 пентаровская - фиолетовый
 индиговая - фиолетовый ✓ 10.





1) 18 [A(1) + B(0) + C(1) + D(1) + E(2) + F(0) + G(0) + X(0) + Y(1)] 2

2) 6 | 2,5

3) 1 | 1

Σ = 12,9 ≈ 13 ⊖