

6008,12 а см 0,8348 = 5015,57 а см

5015,57 а см 208,98 а см = 24 =>  
 Остаток 2 см см 24 а см а В<sub>1</sub>

$$n(A) = \frac{6008,12 - 5015,57}{35,5453} = 28$$

2 - В<sub>1,24</sub> Cl<sub>2,28</sub> 65

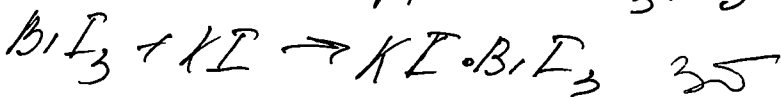
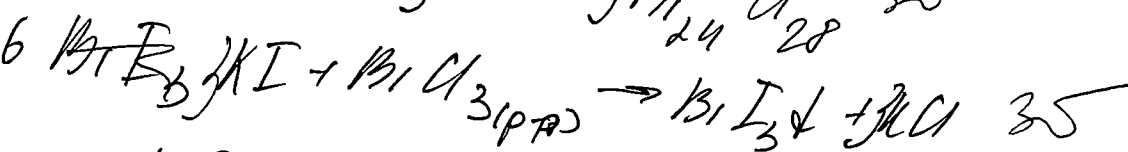
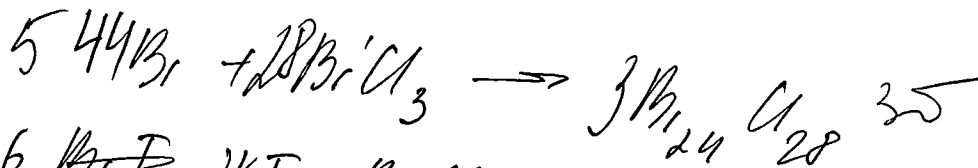
$[VCl_5]^{m+} + 3 - 5 = -2 \quad \text{в } m = -2 \quad 35$

$[V_2Cl_8]^{n+} + 2 \cdot 3 - 8 = -2 \quad \text{в } n = -2 \quad 35$

$[V_{1,8}]^{+5} \quad n = 5 \quad 35$

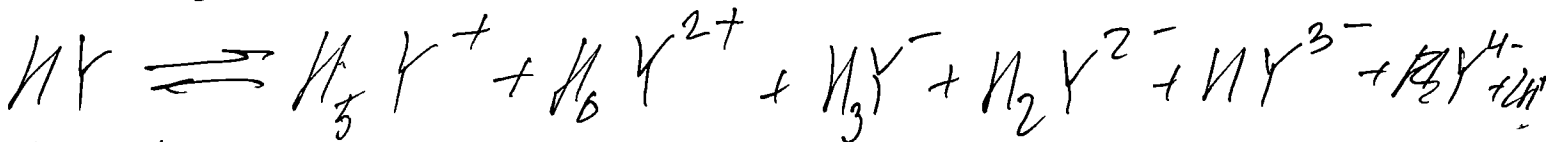
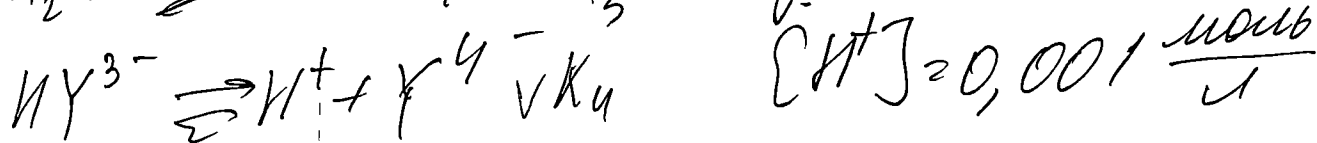
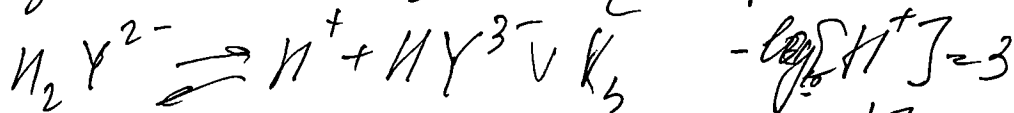
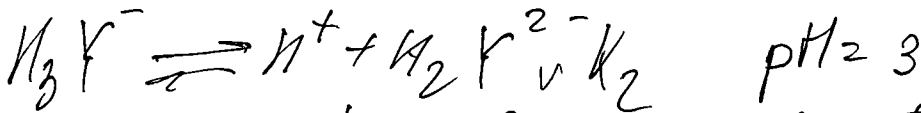
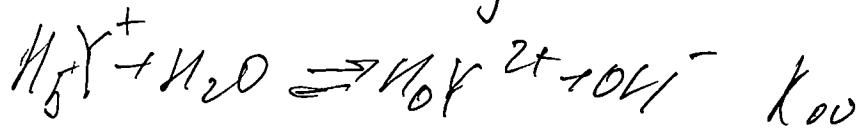
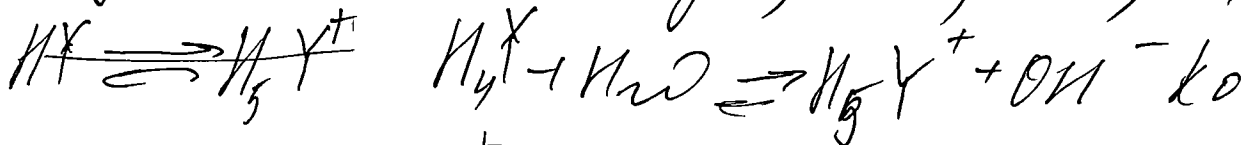
3 (V<sub>1,18</sub>)<sub>2</sub> (V<sub>2</sub>Cl<sub>8</sub>) (V<sub>1</sub>Cl<sub>5</sub>)<sub>4</sub> 15 + 25

4)  $[V_{1,18}]^{5+}$



~~$A(\text{зага}) = 292 \text{ моль}$ ,  $0,8 \text{ г} = 2 \text{ г}$  ~~стимула~~~~  
 ~~$\approx 6$~~

Онабное кривиче сде кривиче АТ КЮ-эмо  
 кривиче докоре кривиче сде кривиче кривиче  
 3 ~~г~~ мемаов кда  $\text{Mg}^{2+}$ ,  $\text{Fe}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Ti}^{4+}$ ,  $\text{V}^{5+}$



~~$k_{000} = k_{00} \cdot k_1 \cdot k_2 \cdot k_3 \cdot k_4$~~

~~$k_{000}$~~   $C[\text{H}_5\text{Y}^+] = 0,0155$  5

$C[\text{H}_6\text{Y}^{2+}] = 0,00051305$

$C[\text{HY}] = \frac{0,00051}{1 - 0,0005} = 3,9 \cdot 10^{-2}$

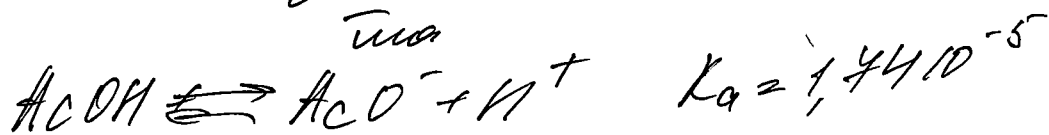
$C[\text{H}_3\text{Y}^-] = 0,001 - C[\text{H}_3\text{Y}^-] = 0,00000201$

$C[\text{HY}^{3-}] = 1,39 \cdot 10^{-12}$   $C[\text{Y}^{4-}] = 7,65 \cdot 10^{-23}$

✓ 1

$$C(\text{AcOH}) = 500 \text{ мл} \cdot \frac{12}{\text{мл}} \cdot 0,01 = 52$$

$$n(\text{AcOH}) = \frac{52}{602} = 0,083 \text{ моль}$$



$$K_a = \frac{[\text{AcO}^-][\text{H}^+]}{[\text{AcOH}]} = \frac{x^2}{1-x}$$

$$1,44 \cdot 10^{-5} + 10,4144 \cdot 10^{-5} x - x^2 = 0$$

$$K_a - x K_a - x^2$$

$$x_1 = 0,00416$$

$$C[\text{H}^+] = 2x_1 = 0,00832 \frac{\text{моль}}{\text{л}}$$

$$pH = -\lg(0,00416) \quad pH = \lg(0,00416) = 2,08$$

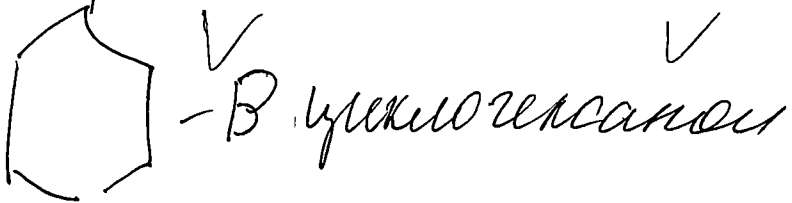
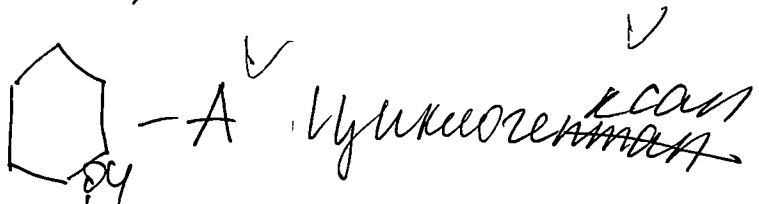
$$[\text{H}^+]_2 = \frac{0,00416 \text{ моль}}{0,1 \text{ л}} = 0,0038$$

$$-\lg[\text{H}^+]_2 = 2,42$$

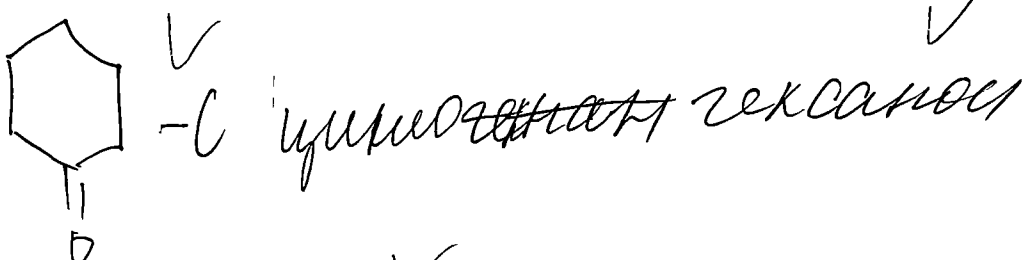
$$\Delta pH = 2,42 - 2,08 = 0,34$$

Ответ увеличился на 0,34

23



16



~~циклогексана~~  
 E циклогексана

Линия отреза

## Бланк ответов

2

