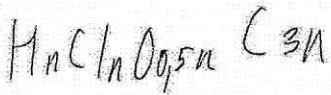
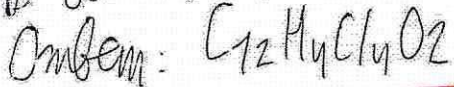
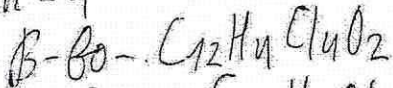


1.1.



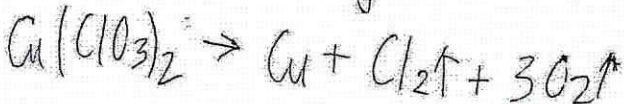
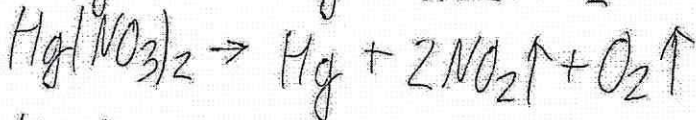
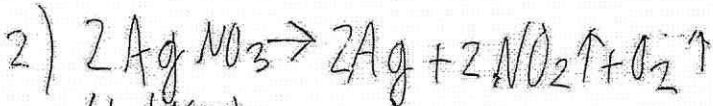
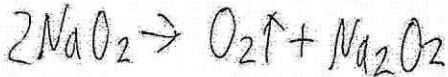
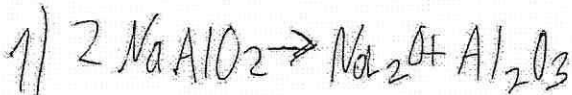
$$5,5n = 22$$

$$n = 4$$

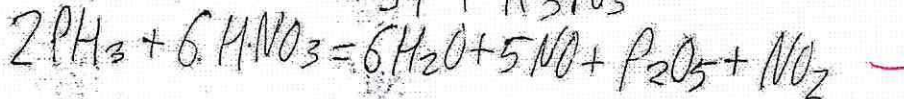
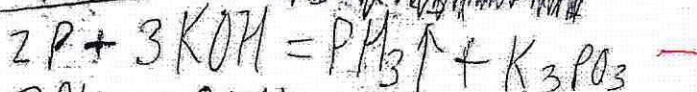
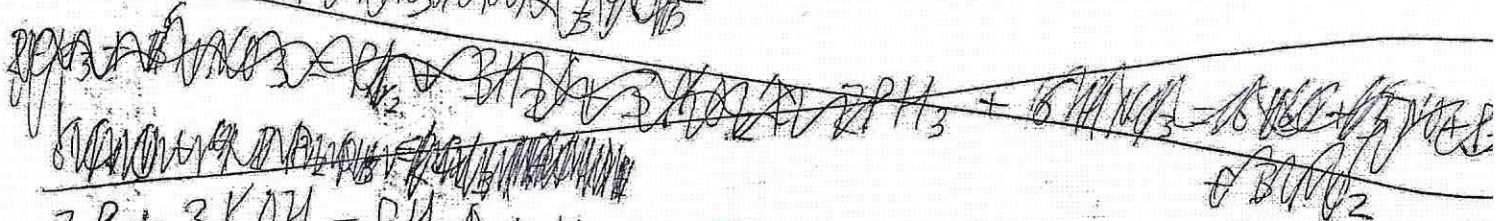
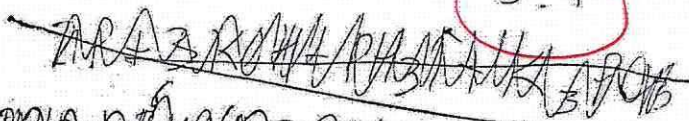


8

2.1.



9.1



СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

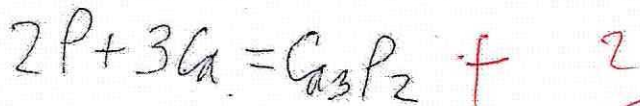
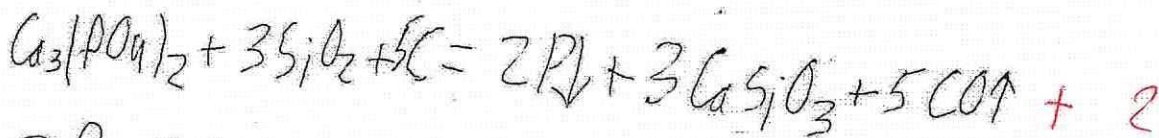
8 X 0 9 3

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

55

255

10



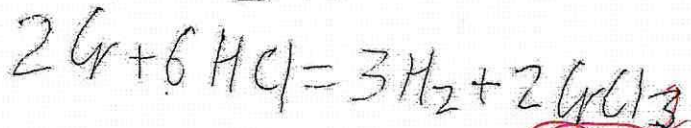
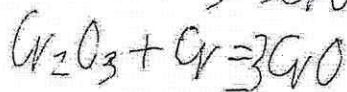
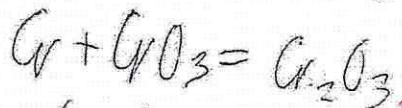
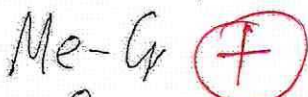
10.1

$$m(O) = 30,42 - 20,82 = 9,62$$

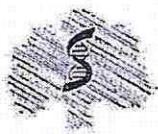
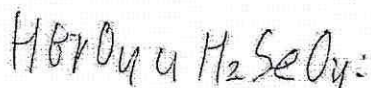
$$\nu(O) = \frac{9,62}{162/моль} = 0,6 \text{ моль}$$

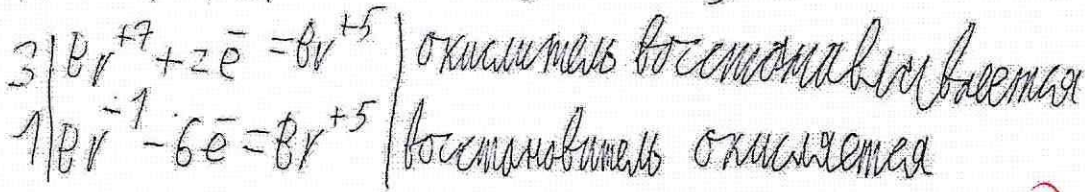
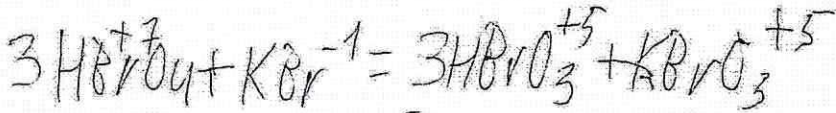
$$\nu(Me) = 0,6 \text{ моль} \cdot 3 \cdot 2 = 0,4 \text{ моль}$$

$$Mr(Me) = \frac{20,82}{0,4 \text{ моль}} = 522/моль$$



4.1

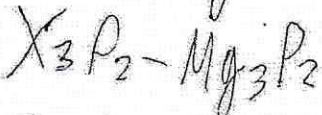
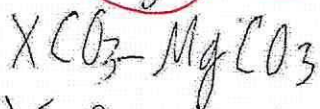




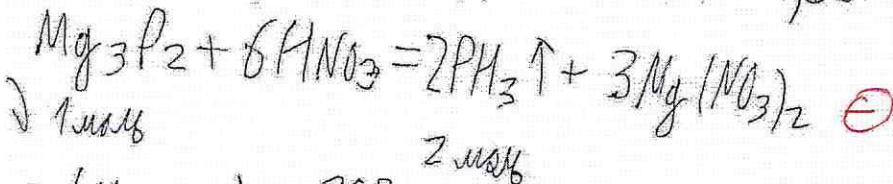
Ответ: H_2SeO_4 и HBrO_3

Б. 1

X - Mg



$$M_r(\text{X}_3\text{P}_2) : M_r(\text{XCO}_3) = 134 : 84 = 1,5952 : 1$$



$$n(\text{Mg}_3\text{P}_2) = \frac{26,82}{1342/\text{моль}} = 0,2 \text{ моль} \quad + 1$$

$$n(\text{PH}_3) = 0,2 \text{ моль} \cdot 2 = 0,4 \text{ моль}$$

$$m(\text{PH}_3) = 372/\text{моль} \cdot 0,4 \text{ моль} = 12,42$$

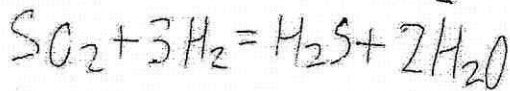
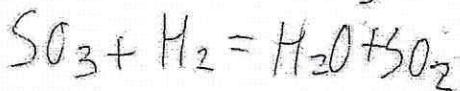
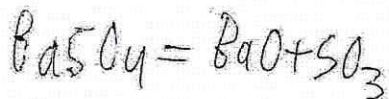
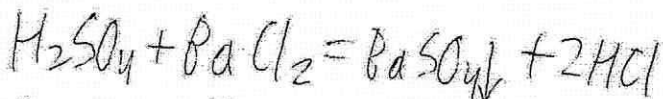
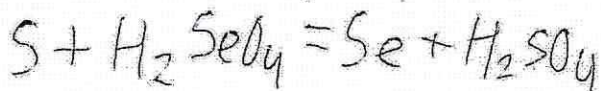
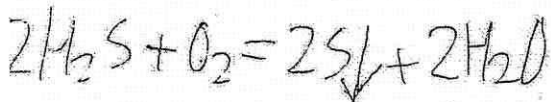
Ответ: $m(\text{PH}_3) = 12,42$; X - Mg



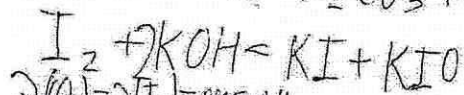
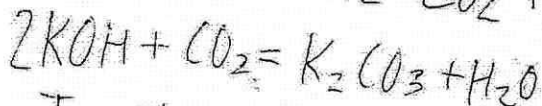
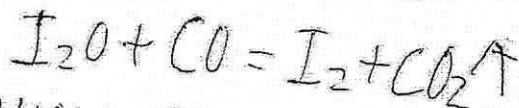
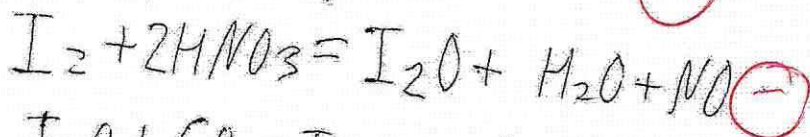
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8 X O 9 3

5.1



$$\nu(\text{I}_2)_1 = \frac{m}{M_r} = 0,005 \text{ моль}$$



$$\nu(\text{O}_2) = \nu(\text{I}_2) = 0,005 \text{ моль}$$

$$\nu(\text{I}_2)_1 = \nu(\text{I}_2)_2 = 0,005 \text{ моль}$$

$$\nu(\text{KI}) = \nu(\text{KIO}) = 0,0025 \text{ моль}$$

$$m(\text{KI}) = 0,4152$$

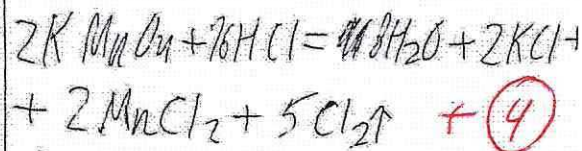
$$m(\text{KIO}) = 0,4552$$

$$m(\text{K}_2\text{CO}_3) = 0,005 \text{ моль} \cdot 138 \text{ г/моль} = 0,692$$

Ответ: $m(\text{KI}) = 0,4152$; $m(\text{KIO}_3) = 0,4552$; $m(\text{K}_2\text{CO}_3) = 0,692$

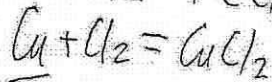
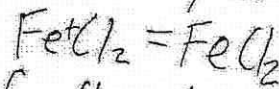
8.1

$$\nu(\text{KMnO}_4) = \frac{m}{M_r} = 0,04 \text{ моль}$$



$$\nu(\text{Cl}_2) = 0,04 \text{ моль} \cdot 2,5 = 0,1 \text{ моль}$$

$$M_r \text{ смеси} = \frac{62}{0,1 \text{ моль}} = 602 \text{ г/моль}$$



$$M \text{ смеси} = 602 \text{ г/моль}$$

$$m(\text{Cu}) = 322$$

$$m(\text{Fe}) = 282$$

$$W\%(\text{Cu}) = \frac{322}{602} \cdot 100\% = 53,33\%$$

Ответ: 53,33%

