



4.15

N2

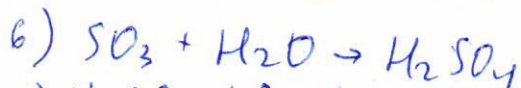
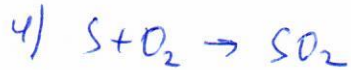
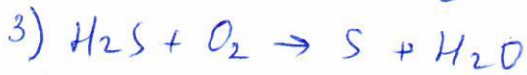
a)  $N_2; O_2; O_3$

б)  $CO_2$

в)  $He$

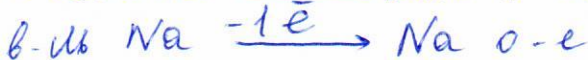
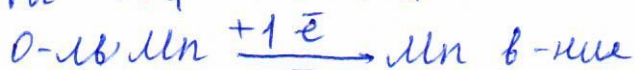
г)  $NH_3$

N4 ~



| Дано                      | Решение  |
|---------------------------|--|
| $w(MgSO_4) = 27\% = 0,27$ | $BaCl_2 + MgSO_4 \rightarrow BaSO_4 + MgCl_2$                      |
| $m(p-pa) = 45 \text{ г}$  | $m(MgSO_4) = 0,27 \cdot 45 = 12,15 \text{ г}$                      |
| $m(\text{осадка}) = ?$    | $M(MgSO_4) = 120 \text{ г/моль}$                                   |
|                           | $n(MgSO_4) = \frac{12,15}{120} = 0,1 \text{ моль}$                 |
|                           | $\frac{0,1}{1n(MgSO_4)} = \frac{x}{1n(BaSO_4)} = 0,1 \text{ моль}$ |
|                           | $m(BaSO_4) = 233 \cdot 0,1 = 23,3 \text{ г}$                       |
|                           | $M(BaSO_4) = 233 \text{ г/моль}$                                   |

Ответ:  $m(\text{осадка}) = 23,3 \text{ г}$ .





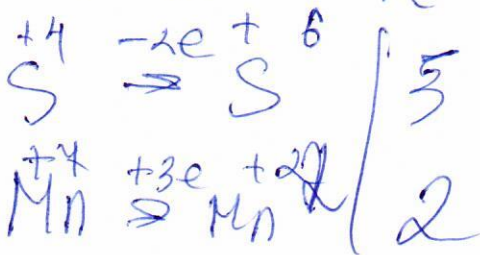
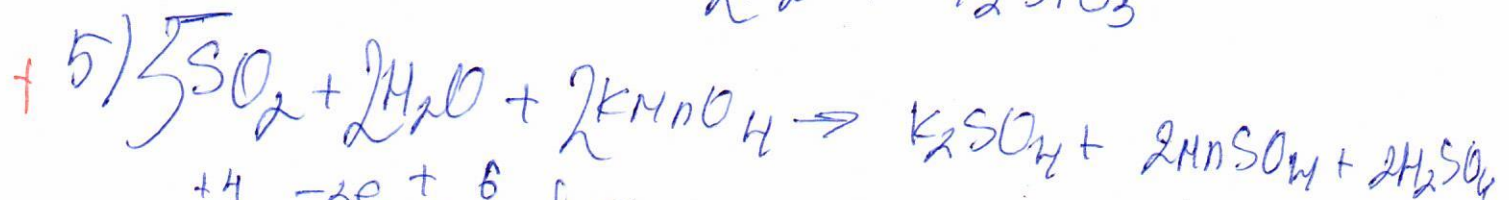
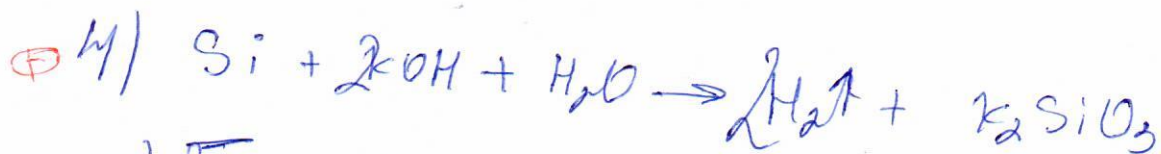
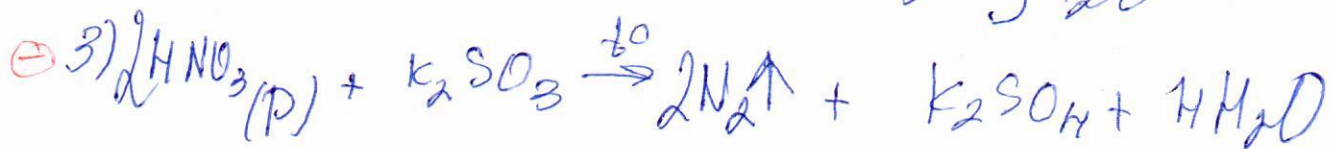
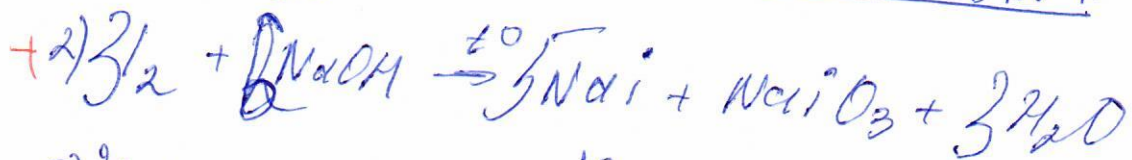
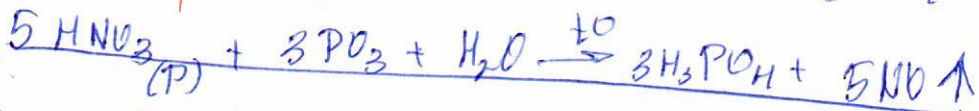
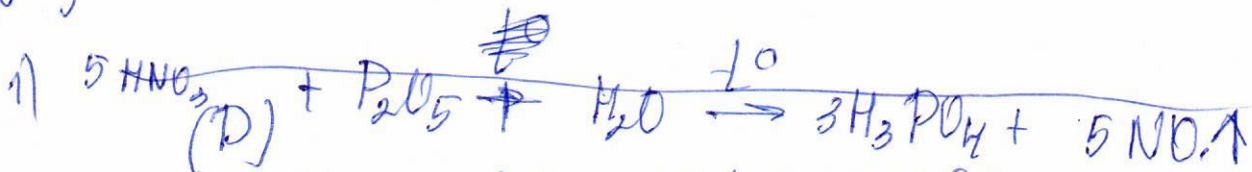
NOH

$$12,62 \left\{ \begin{array}{l} C_2H_6 \\ C_3H_8 \end{array} \right\} = 7,64 \quad \eta = \frac{7,64}{22,4} = 0,35$$

$$\begin{array}{l} C_2H_6 - 30 \\ C_3H_8 - 42 \end{array} \quad \frac{x}{30} + \frac{12,6}{42} = 0,35$$

$$42x + 378 = 0,35$$

NO5





2.45  
 2.1 Вещество: смесь реактивов горения



Данная смесь:  $14.4 = 56 \Rightarrow n(C_xH_yO_z) = \frac{4.2}{56} = 0.075$  моль  $\begin{matrix} : 0.075 \\ 1 \\ 4 \\ 4 \end{matrix}$

$n(CO_2) = \frac{6.42}{22.4} = 0.286$  моль

$n(H_2O) = \frac{5.4}{18} = 0.3$  моль

$C_4H_8 = 56$   
 $4 \times 12 + 8 = 56 \Rightarrow [X]$

$C_xH_yO_z: CO_2: H_2O = 1:4:4 \Rightarrow C_4H_8 \Rightarrow C_nH_{2n} \Rightarrow$   
 Примеры:

