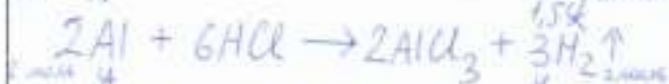


4 x

Задача 1.



$$n(H_2) = \frac{24,64g}{2g} = 1,232 \text{ моль}$$

$$\begin{cases} y = 1,25x \\ 1,5x + y = 1,1 \text{ моль} \end{cases}$$

$$1,5x + 1,25x = 1,1$$

$$2,75x = 1,1$$

$$x = 0,628 \quad 0,158$$

$$y = 1,25 \cdot 0,628 = 0,785 \text{ моль}$$

Задача 2

$$1. \omega(S) = 100\% \cdot 86,62\% = 86,62\% = 0,8662$$

$$M_r(MeS) = \frac{32}{0,1338} = 239 \text{ г/моль}$$

$$M_r(Me) = 239 \text{ г/моль} - 32 \text{ г/моль} = 207 \text{ г/моль} - Pb$$

X - Pb ; A - PbS

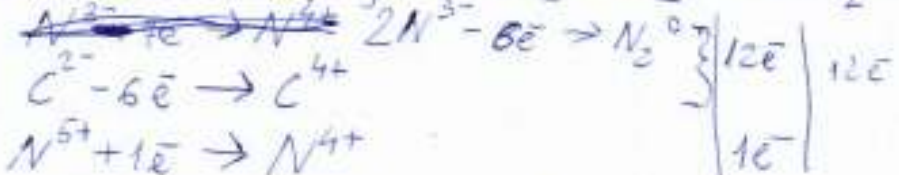
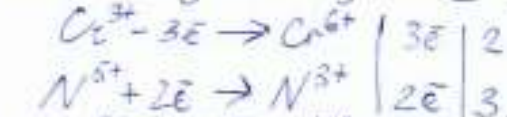
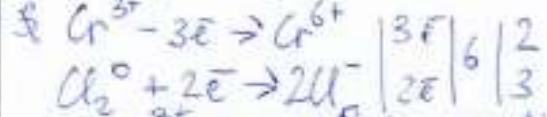
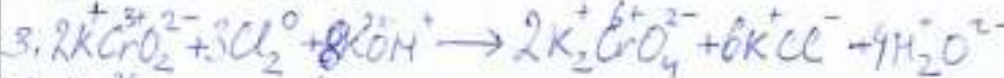
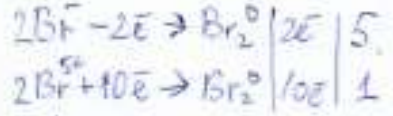
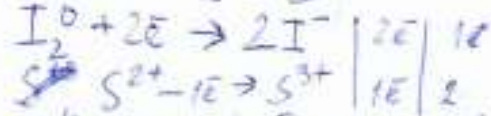
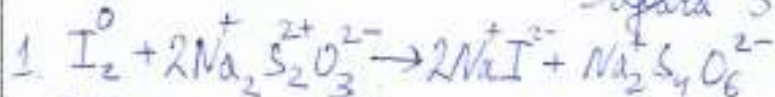


$$3. n(PbSO_4) = \frac{0,00322}{303 \text{ г/моль}} = 1,05 \cdot 10^{-5} \text{ моль} \quad - 100 \text{ г } H_2O \quad - \frac{100 \text{ г}}{1000 \text{ г}} = 0,1 \text{ л}$$

$$n(PbSO_4) = \frac{1,05 \cdot 10^{-5} \text{ моль}}{x \text{ моль}} = \frac{0,1 \text{ л}}{1 \text{ л}} = \frac{1,05 \cdot 10^{-5} \text{ моль}}{0,1 \text{ л}} = 1,05 \cdot 10^{-4} \text{ моль}$$

4. ~~Handwritten scribbles and crossed-out text.~~

Зарға 3

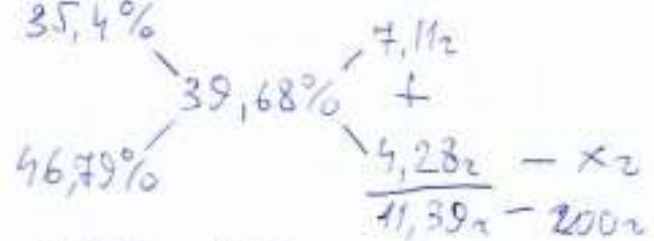


Зарға 4 - 200г

$$1. \omega(MgCl_2)_{100\%} = \frac{65,82}{65,82 + 100} \cdot 100\% = 39,68\% \quad \checkmark \quad 35,4 < 39,68 < 46,79$$

$$\omega(MgCl_2)_{20\%} = \frac{54,82}{54,82 + 100} \cdot 100\% = 35,4\%$$

$$\omega(MgCl_2)_{MgCl_2 \cdot 6H_2O} = \frac{95,82}{95,82 + 108} \cdot 100\% = 46,79\% \quad \times 2$$



$$11,39x = 856$$

$$\lambda = \frac{856}{11,39} = 75,152$$

