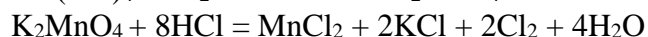
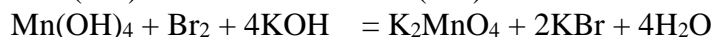
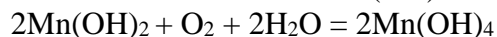
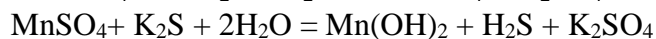
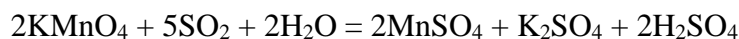


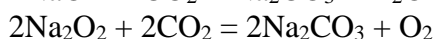
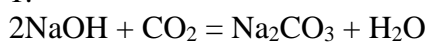
:

11-1 (15)

: - 3 (15)

11-2 (15)

1.



2.

x,

100-x.

:

$$44 \cdot x/80 + 88 \cdot (100-x)/156 - 32 \cdot (100-x)/156 = 43,538$$

$$x = 40,0$$

$$w(\text{NaOH}) = 40/100 \cdot 100\% = 40\%$$

$$w(\text{Na}_2\text{O}_2) = (100-40)/100 \cdot 100\% = 60\%$$

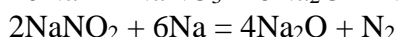
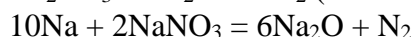
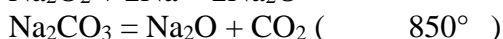
$$X(\text{NaOH}) = (40/40)/(40/40+60/78) \cdot 100\% = 56,5\%$$

$$X(\text{Na}_2\text{O}_2) = (60/78)/(40/40+60/78) \cdot 100\% = 43,5\%$$

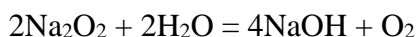
3.



:



4.



: - 1 (7),

- 8 ,

- 5 .

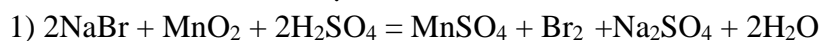
:

11-3 (20)

():

- 3; - 6; - 5; - 2; - 8; - 1; - 4; - 7.

:



- 2) $2\text{PbNO}_3 \rightarrow 2\text{PbO} + \text{NO}_2 + \text{O}_2$
- 3) $\text{FeCl}_3 + 3\text{NaOH} = \text{Fe(OH)}_3 + 3\text{NaOH}$
- 4) $\text{Mg}_3\text{N}_2 + 6\text{H}_2\text{O} = 2\text{NH}_3 + 3\text{Mg(OH)}_2$
- 5) $\text{Na}_2\text{S}_2\text{O}_3 + 2\text{HNO}_3 = 2\text{NaNO}_3 + \text{S} + \text{SO}_2 + \text{H}_2$
- 6) $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$
- 7) $5\text{SO}_2 + 2\text{KMnO}_4 + 6\text{HNO}_3 + 2\text{H}_2\text{O} = 2\text{Mn(NO}_3)_2 + 2\text{KNO}_3 + 5\text{H}_2\text{SO}_4$

2 3 1 , 1, 4, 5, 6, 7 - 2 1 .

11-4 (15)

1. $(10/48) \cdot 1,149 = 0,239$.
 2. $m = 0,239 \cdot 0,3 = 0,071$; $n = 0,071/36,5 = 1,945 \cdot 10^{-3}$.
 3. 100% .
 4. $10^{-5,5} + 1,945 \cdot 10^{-3} = 1,948 \cdot 10^{-3}$. $-\lg(1,948 \cdot 10^{-3}) = 2,71$.
- 2,7

11-5 (20)

1. $x + y + z = 1$; a , z .
 2. $m(\text{H}_4) = 16y/22,4$; $m(\text{CO}) = 28z/22,4$.

$$\frac{2x + 16y + 28z}{22,4} = 0,857 \text{ или } x + 8y + 14z = 9,6$$
 2. $2\text{H}_2 + \text{O}_2 = 2\text{H}_2\text{O}$;
 $\text{H}_4 + 2\text{O}_2 = \text{CO}_2 + 2\text{H}_2\text{O}$;
 $2\text{CO} + \text{O}_2 = 2\text{CO}_2$.
 3. $0,5z$.
 4. $4,52$. 21% .
 5. $V(\text{O}_2) = 4,52 \cdot 0,21 = 0,95$.
 $0,5x + 2y + 0,5z = 0,95$ или $x + 4y + z = 1,9$.

$$\begin{cases} x + y + z = 1 \\ x + 8y + 14z = 9,6 \\ x + 4y + z = 1,9 \end{cases}$$
- $x = 0,2$ () ;

