

	20
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2.

... , ... , 100
 210 ... 100
 70 (...)
)

- 1.
- 2.
- 3.
- 4.
- 5.

:

(...)	
1. $nH_{2n}, nH_{2n+2}, n -$	2
2. 100 70 , , $V(H_2) = V(C_nH_{2n}) = 100 - 70 = 30$ ()	3
3. $V(C_nH_{2n+2n}) = 210 - 170 = 40$ ()	3
4. 40 30 $40n$ $30n$ $2,$ 2	3
5. 2 210 , , $210 = 40n + 30n, n = 3$	4
6. : $3 \ 8 -$ $3 \ 6 -$.	2
7. : ($3 \ 8$) = $40/100 = 0,4$ 40% : ($3 \ 6$) = $30/100 = 0,3$ 30% : (2) = $100 - 70 = 30\%$	1 1 1
	20

3.

:

1. $2 \ 5$ $Na() + NaOH() (t^0,)$
2. $6 \ 6 + 2 (t^0, , Ni)$
3. $C_2H_2 (C(), 600^0)$
4. $CH_3CHO + Cu(OH)_2 (t^0)$
5. ... (SO_4, t^0) $C_6H_5NO_2 + H_2O$
6. ... (Cr_2O_3, Al_2O_3) $CH_2=CH-CH=CH_2 + H_2 + H_2O$
7. ... $CH \ CH + Ca(OH)_2$
8. ... () $C_2H_5OH + CO_2$

:

:

1. 1 – 4 , ,
2. 5 – 8 ,
3. , 2.
4. 4 .

:

() ,	
1. $2 \text{ Na} + 2 \text{ NaOH} (t^0) \rightarrow 2 \text{ Na}_2\text{O} + \text{H}_2$	2
2. $6 \text{ Fe} + 3 \text{ Ni} \rightarrow 6 \text{ FeNi}$	2
3. $3 \text{ C}_2\text{H}_2 (C_{60}) \rightarrow 6 \text{ C}$	2
4. $\text{CH}_3\text{CHO} + 2 \text{ Cu}(\text{OH})_2 (t^0) \rightarrow \text{CH}_3\text{COH} + \text{Cu}_2\text{O} + 2 \text{ H}_2\text{O}$	2
5. $6 \text{ C}_6\text{H}_6 + \text{HNO}_3 \rightarrow \text{C}_6\text{H}_5\text{NO}_2 + \text{H}_2\text{O}$	2
6. $2 \text{ C}_2\text{H}_5\text{CH}=\text{CH}_2 \rightarrow \text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2 + \text{H}_2 + \text{H}_2\text{O}$	2
7. $2 \text{ C}_2\text{H}_5\text{CH}=\text{CH}_2 + \text{Ca}(\text{OH})_2 \rightarrow \text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2 + \text{Ca}(\text{OH})_2$	2
8. $6 \text{ C}_2\text{H}_5\text{OH} + 2 \text{ CO}_2 \rightarrow 2 \text{ C}_2\text{H}_5\text{OH} + 2 \text{ CO}_2$	2
9. $6 \text{ C}_2\text{H}_5\text{OH} \rightarrow 6 \text{ C}_2\text{H}_4 + 6 \text{ H}_2\text{O}$	2
10. $\text{Cu}(\text{OH})_2 \rightarrow \text{Cu}_2\text{O} + \text{H}_2\text{O}$	2
	20

4.

49 ,
 , ,
 25,3 .
 50% .

:

() ,	
1. $3 \text{ C}_2\text{H}_5\text{Br} + 3 \text{ H}_2 \rightarrow 2 \text{ C}_2\text{H}_6 + 3 \text{ HBr}$	3
2. $4 \text{ C}_2\text{H}_5\text{Br} + 3 \text{ H}_2 \rightarrow \text{CHBr}_3 + 3 \text{ HBr}$	3
3. $M(\text{CHBr}_3) = 253 / 3 = 84.33$, $(3 \text{ C}_2\text{H}_5\text{Br}) = 98 / 3 = 32.67$	2

4.	$25,3 / 253 / \quad = 0,1$	CHBr ₃ :	2
5.	$0,1 \cdot 50\% / 0,5 = 0,2$		2
6.	$0,2 \cdot 3 \cdot (\quad - \quad)$		2
7.	$\quad : m(\quad) = 0,2 \cdot 98 / \quad = 19,6$		2
8.	$(\quad) = 19,6 / 49 = 0,4 \quad 40\%$		2
9.	$(\quad) = 100 - 40 = 60\%$ $(\quad) = (49 - 19,6) / 49 = 0,6 \quad 60\%$		2
			20

5.

1. , , , , , .
2. .
3. .

(,)	
1. PbCl ₂ .	1
2. PbCl ₂ , .	2
3. BaCl ₂ + H ₂ SO ₄ = BaSO ₄ + 2HCl	1
BaSO ₄ - ,	2
4. NaOH , ,	1
5. MgCl ₂ + 2KOH = Mg(OH) ₂ + 2KCl	1
Mg(OH) ₂ - ,	1
6. MnCl ₂ + 2KOH = Mn(OH) ₂ + 2KCl	1
Mn(OH) ₂ - ,	2
2Mn(OH) ₂ + = 2MnO ₂ + 2 :	2
7. ZnCl ₂ + 2KOH = Zn(OH) ₂ + 2KCl	2
Zn(OH) ₂ + 2 = [Zn(OH) ₄]	2
Zn(OH) ₂ + H ₂ SO ₄ = ZnSO ₄ + 2 :	1
8. NaCl-	1
	20