

II ()

, 7 - 8

1 (3).

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15,23 ,

19,3 / ³.

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() ,	
1) $m(\text{Au}) = 15,23 \cdot 197 / 3000$: $m = n \cdot M$:	1
2) $V(\text{Au}) = 3000 / 19,3 / 3 = 155$ ³ $V = m / \rho$,	1
3) $V(\text{H}_2\text{O}) = 155$ ³ $= 155 = 0,155$	1
	0
	3

2 (4).

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7 ,

$V(\text{O}_2) = 250$, $m(\text{O}_2) = m(\text{O}_2)$.

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() ,	
1) $m(\text{O}_2) = m(\text{O}_2) = V(\text{O}_2) \cdot \rho(\text{O}_2)$ $m(\text{O}_2) = 250 \cdot 1 / 1 = 250$	1
2) $m(\text{O}_2) = 7 \cdot 3 = 21$	1

3) $m(\text{CO}_2) = m(\text{CO}) + m(\text{C})$ $m(\text{CO}_2) = 250 + 21 = 271$	1
4) $(\text{CO}_2) = m(\text{CO}_2) / m(\text{CO}_2)$ $(\text{CO}_2) = 21 / 271 = 0,0775$ (7,75 %)	1
	0
	4

3 (6) .

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 . , .
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 (1,43 /),
 1 ,
 16 .
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 3500 ³ .

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1) $- 2$: .	1
2) , 1 (60): $V(\text{CO}_2) = V(\text{CO}) \cdot N(\text{CO}_2 / \text{CO})$ $V(\text{CO}_2) = 3500 \cdot 16 \frac{1}{60} \cdot 60 = 3360 \cdot 10^3 \text{ m}^3 = 3360 \text{ m}^3$	2
3) , 21% () $(\text{O}_2) = 0,21$	1
4) : $V(\text{O}_2) = V(\text{CO}_2) \cdot (\text{O}_2) = 3360 \cdot 0,21 = 705,6 \text{ m}^3$ $m(\text{O}_2) = V(\text{O}_2) \cdot (\text{O}_2) = 705,6 \cdot 1,43 / = 1009 \text{ kg}$	2
	0
	6

4 (8).

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1)	2
2)	$r() = 1,$ $M(H) = 1 /$ 1
3)	$m_0(H) = r() \cdot 1 \dots = 1 \cdot 1,66 \cdot 10^{-24} = 1,66 \cdot 10^{-24}$ $\overline{m_0(H)} = M(H)/N_A = 1 / / 6,02 \cdot 10^{23}^{-1} = 1,66 \cdot 10^{-24}$ 2
4)	3
	0
	8

5 (9).

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