

I
II
III
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1/8
1/2

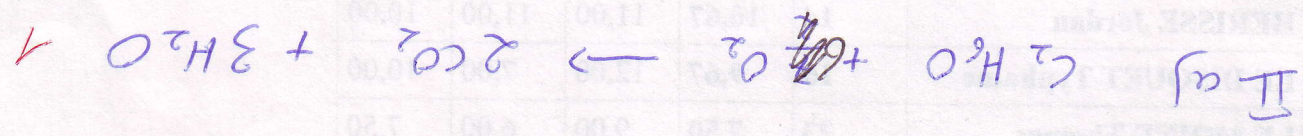
I a) $M_{\text{Methanol}} = 2x_{12} + 6x_{17} + 16 = 46 \text{ g/mol}$

$M_{\text{eau}} = 78 \text{ g/mol}$

I b) $m_{\text{Methanol}} = 0,30 \times 5,00 = 1,5 \text{ kg}$
 $m_{\text{eau}} = 0,70 \times 5,00 = 3,5 \text{ kg}$

I c) $m_{\text{Methanol}} = \frac{1500 \text{ g}}{46 \text{ g/mol}} = 32,6 \text{ mol} = 33 \text{ mol}$

$M_{\text{eau}} = \frac{32500}{18} = 1805,56 \text{ mol}$



b)

	$\text{C}_2\text{H}_6\text{O}$	O_2	2CO_2	$3\text{H}_2\text{O}$
EI	$M_{\text{C}_2\text{H}_6\text{O}}$	M_{O_2}	0	0
EP	$M_{\text{C}_2\text{H}_6\text{O}} - x_2$	$M_{\text{O}_2} - 3x_2$	$2x_2$	$3x_2$

$m_{\text{Methanol}} = \rho_{\text{Methanol}} \times V_{\text{Methanol}} = 790 \text{ g/L} \times 0,150 \text{ L} = 118,5 \text{ g}$
 $m_{\text{Methanol}} = \frac{m_{\text{Methanol}}}{M_{\text{Methanol}}} = \frac{118,5}{46} = 2,576 \text{ mol}$

$\text{C}_2\text{H}_6\text{O}$ est est le réactif limitant $\Rightarrow x_2 = 2,576 \text{ mol}$

On a consommé $3x_2$ de O_2 soit $7,728 \text{ mol}$
 $V_{\text{O}_2} = M_{\text{O}_2} \times V_M = 240 \text{ L/mol} \times 7,728 = 1854,72 \text{ L}$
 $\Rightarrow V_{\text{O}_2} = 1855 \text{ L}$

Угол отклонения:

			12'00"	14'00"
ВОСНОВЫЕ АЛМАШ	30	1	12'00"	13'00"
ВЕЩА УВЕЩАЮЩ	30	2	13'00"	13'00"
БОИТОНИЕР УИСТ	30	3	14'00"	14'00"
УИШЧУВГЛ ТУЩ	30	4	13'00"	13'00"
МУКЛИ САНДРА	30	3	14'00"	14'00"
МУИШЧУ ДУМ	30	2	13'00"	13'00"
СОНГЛА СОНДРА	30	1	12'00"	12'00"

$$c_B = \frac{M_A}{V_A + V} = \frac{0,50}{(50 + 250) \cdot 10^{-3}} = 7,7 \text{ mol/L}$$

$$c_A = \frac{M_A}{V_A} = \frac{0,50}{50 \cdot 10^{-3}} = 10 \text{ mol/L}$$

$$M_{H_2O} = 18 \times 7,8 = 140,4$$

$$M_{H_2O} \times n_{H_2O} = M_{H_2O} \times n_{H_2O}$$