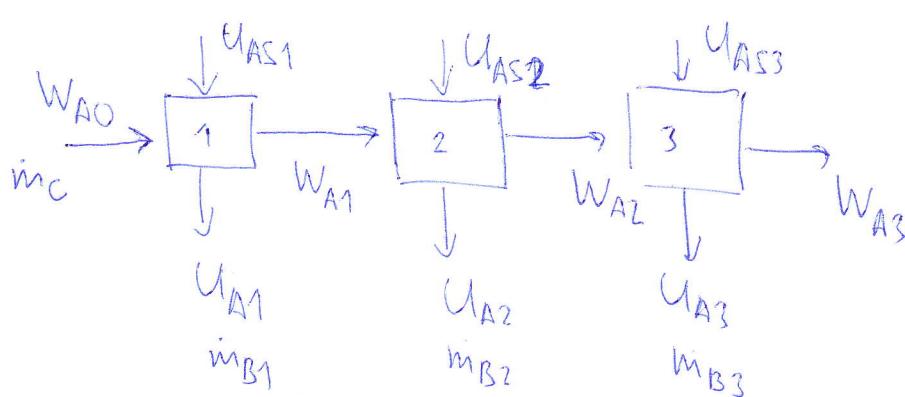


12-Sa



$$U_{AS1} = U_{AS2} = U_{AS3} = U_{AS123} = 0$$

$$m_{B1} = m_{B2} = m_{B3} = m_{B123} = ?$$

Přemírné:  $m_c, m_{B123}, U_{AS123}$

$(W_{AO}), \underline{W_{A1}}, \underline{W_{A2}}, \underline{W_{A3}}, \underline{U_{A1}}, \underline{U_{A2}}, \underline{U_{A3}}, \underline{W_{A3}}$

A - acetén

B - voda

C - oxýken

$$W_{AO} = \frac{0,11}{1-0,11} = 0,1236$$

$$m_c = 20 \cdot (1-0,11) = 17,8 \text{ kg}$$

$$m_c W_{AO} + m_{B123} U_{AS123} = m_c W_{A1} + m_{B123} U_{A1}$$

$$U_{A1} = k \cdot W_{A1}$$

$$W_{A3} = \frac{0,02}{1+0,02} = 0,0204$$

$$m_c W_{A1} + m_{B123} U_{AS123} = m_c W_{A2} + m_{B123} U_{A2}$$

$$U_{A2} = k \cdot W_{A2}$$

$$m_c W_{A2} + m_{B123} U_{AS123} = m_c W_{A3} + m_{B123} U_{A3}$$

$$U_{A3} = k \cdot W_{A3}$$

$$m_c W_{AO} = m_c W_{A1} + m_{B123} k W_{A1}$$

$$m_c W_{A1} = m_c W_{A2} + m_{B123} k W_{A2}$$

$$m_c W_{A2} = m_c W_{A3} + m_{B123} k W_{A3}$$

$$W_{AO} = \left(1 + \frac{m_{B123} k}{m_c}\right) W_{A1} = \left(1 + \frac{m_{B123} k}{m_c}\right)^3 W_{A3}$$

$$W_{A1} = \left(1 + \frac{m_{B123} k}{m_c}\right) W_{A2} = \left(1 + \frac{m_{B123} k}{m_c}\right)^2 W_{A3}$$

$$W_{A2} = \left(1 + \frac{m_{B123} k}{m_c}\right) W_{A3}$$

$$W_{A1} = \left(1 + \frac{m_{B123} k}{m_c}\right)^2 W_{A3}$$

$$\boxed{W_{AO} = \left(1 + \frac{m_{B123} k}{m_c}\right)^3 W_{A3}}$$

$$\left(1 + \frac{m_{B123} k}{m_c}\right)^3 = \frac{W_{AO}}{W_{A3}}$$

$$1 + \frac{m_{B123} k}{m_c} = \left(\frac{W_{AO}}{W_{A3}}\right)^{1/3}$$

$$m_{B123} = \left[\left(\frac{W_{AO}}{W_{A3}}\right)^{1/3} - 1\right] \frac{m_c}{k}$$

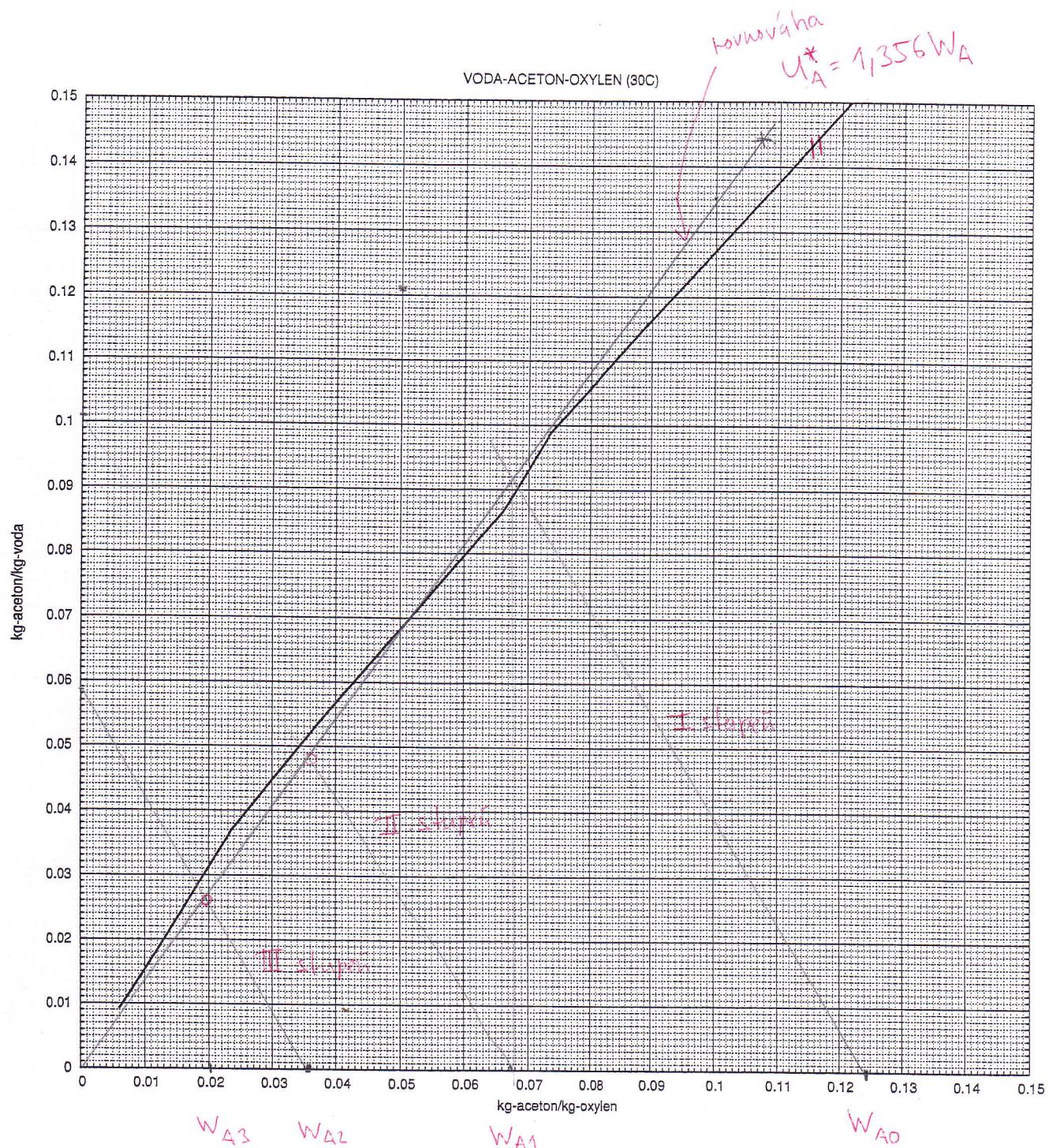
$$m_{B123} = \left[\left(\frac{0,1236}{0,0204}\right)^{1/3} - 1\right] \frac{17,8}{1,356}$$

$$m_{B123} = 10,180 \text{ kg}$$

$$m_{B, \text{celkem}} = 3 \cdot 10,180 = 30,54 \text{ kg}$$

12-Sa

Graf. Řešení



$$20 \text{ kg } 1\% \text{ aceton+oxylen} \rightarrow W_{AO} = 0,1236 \quad m_C = 17,8 \text{ kg}$$

Ex.č. voda

$$U_{AS} = 0$$

$$\text{max } 2\% \text{ acetonu v taf. } W_{AN,\text{MAX}} = 0,0204$$

3x stejným množstvím

$$\text{Smeřice } \frac{m_C}{m_B} = 1,648$$

Réšení a)  
m\_B = 10,8 kg  
3x