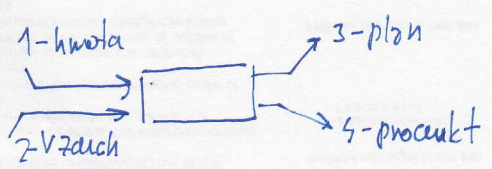
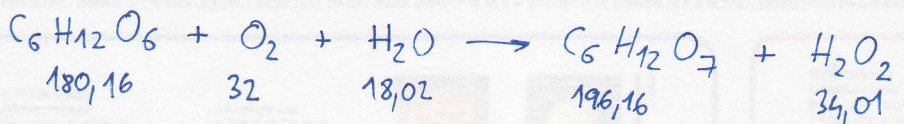


2-17



9+1 neznámých
 7 bilancí
 2x $\sum w_i = 1$
 1x $0,233 \cdot m_2 = 18 \text{ kg/h}$

	①	②	③	④
A - $C_6H_{12}O_6$	0,02	-	-	-
B - O_2	-	0,233	W_{B3}	-
C - H_2O	0,20	-	-	W_{C4}
D - $C_6H_{12}O_7$	-	-	-	W_{D4}
E - H_2O_2	-	-	-	W_{E4}
F - N_2	-	0,767	W_{F3}	-
G - pevné látky	0,78	-	-	W_{G4}
	3000 kg/h	m_2	m_3	m_4

$$3000 \cdot 0,02 = \xi \cdot 180,16 \quad \xi = 0,333 \text{ kmol/h}$$

$$\rightarrow 18 = \xi \cdot 32 + m_3 W_{B3}$$

$$3000 \cdot 0,20 = \xi \cdot 18,02 + m_4 W_{C4}$$

$$\xi \cdot 196,16 = W_{D4} \cdot m_4$$

$$\xi \cdot 34,01 = m_4 W_{E4}$$

$$\rightarrow \frac{0,767}{0,233} \cdot 18 = m_3 W_{F3}$$

$$3000 + \frac{18}{0,233} = m_3 + m_4$$

$$\rightarrow W_{B3} + W_{F3} = 1 \quad \rightarrow \frac{7,3528}{m_3} + \frac{59,25}{m_3} = 1 \Rightarrow m_3 = 66,596 \text{ kg/h (plazn)}$$

$$m_4 = 3010,7 \text{ kg/h (hmota)}$$

<u>Hmotla</u>		<u>plazn</u>
$W_{D4} = 0,02170$	($C_6H_{12}O_7$)	
$W_{E4} = 0,003762$	(H_2O_2)	$W_{F3} = 0,8897$ (N_2)
$W_{C4} = 0,1973$	(H_2O)	$W_{B3} = 0,1103$ (O_2)
$W_{G4} = 0,7773$	(pevné látky)	