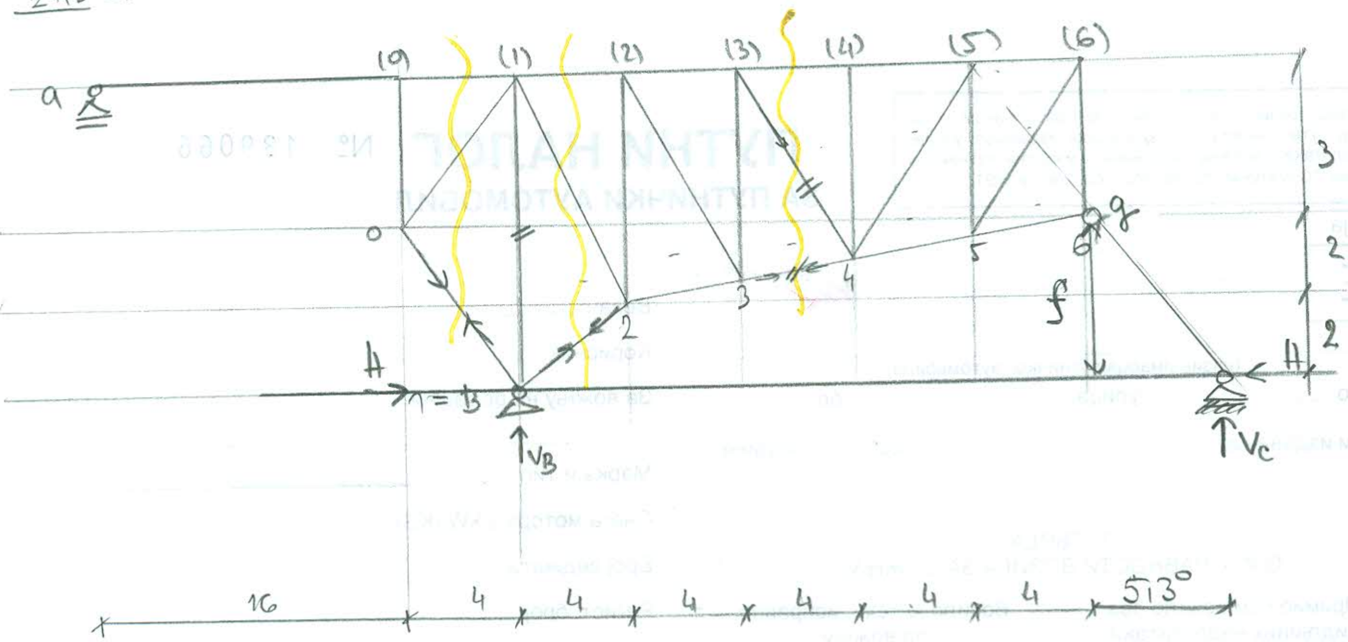
ZAD 5.



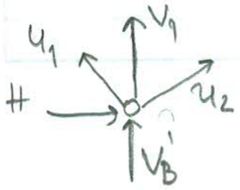
$tg\alpha = \frac{3}{4} = \frac{4}{x} \Rightarrow \quad x = \frac{16}{3} \quad f = 4$

$M_{g0} - Hf = 0 \quad H = \frac{M_{g,0}}{f} \Rightarrow$

$$\boxed{\begin{aligned} H^{(B)} &= l_1/f = \frac{5\cdot 4}{4} = 5 \\ H^{(C)} &= l_2/f = \frac{5,\bar{3}}{4} = \frac{4}{3} \end{aligned}}$$

$V_1 = \dots$

$\Sigma V = 0 \quad V_1 + V_B' + U_1 \sin\beta_1 + U_2 \cdot \sin\beta_2 = 0$



$V_1 = -V_B' - U_1 \sin\beta_1 - U_2 \sin\beta_2$

$U_1 = \dots \quad \Sigma M_{(1)} = 0 \quad M_{(1),0} - U_1 \cdot \cos\beta_1 \cdot h_1 = 0$

$U_1 = \frac{1}{\cos\beta_1} \cdot \frac{M_{(1),0}}{h_1}$

$U_2 = \dots \quad \Sigma M_{(1)} = 0 \quad M_{(1),0} - U_2 \cos\beta_2 \cdot h_1 - H \cdot y_{(1)} = 0$

$U_2 = \frac{1}{\cos\beta_2}\left(\frac{M_{(1),0}}{h_1} - H\frac{y_{(1)}}{h_1}\right)$

$V_1 = -V_B' - tg\beta_1 \cdot \frac{M_{(1),0}}{h_1} - tg\beta_2\left(\frac{M_{(1),0}}{h_1} - H\frac{y_{(1)}}{h_1}\right)$

$tg\beta_1 = \frac{4}{4} = 1 \qquad tg\beta_2 = \frac{2}{4} = \frac{1}{2} \qquad y_{(1)} = 7 \quad h_1 = 7$

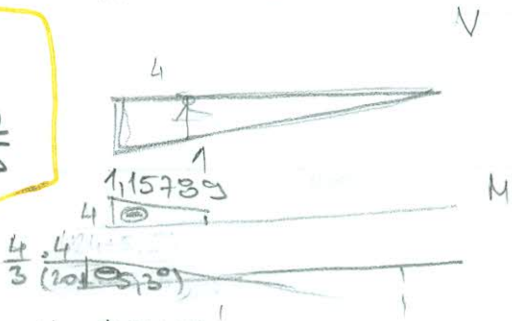
$V_1 = -V_B' - \frac{M_{(1),0}}{7} - \frac{1}{2}\frac{M_{(1),0}}{7} + \frac{1}{2}H = -V_B' - \frac{3}{14}M_{(1),0} + \frac{1}{2}H$

$V_{1,0}^{(B)} = -1 - \frac{3}{14}\cdot 0 = -1 \qquad + \frac{1}{2}H^{(B)} = 2,5$

$V_{1,0}^{(C)} = 1 - \frac{3}{14}\cdot 0 = 1 \qquad \frac{1}{2}H^{(C)} = \frac{4}{6} = \frac{2}{3}$

$V_{0,0} = -1,15789 - \frac{3}{14}\cdot(-4) + \frac{1}{2}\cdot(-0,21053)$

$= -0,406$



$H = 0,21053$