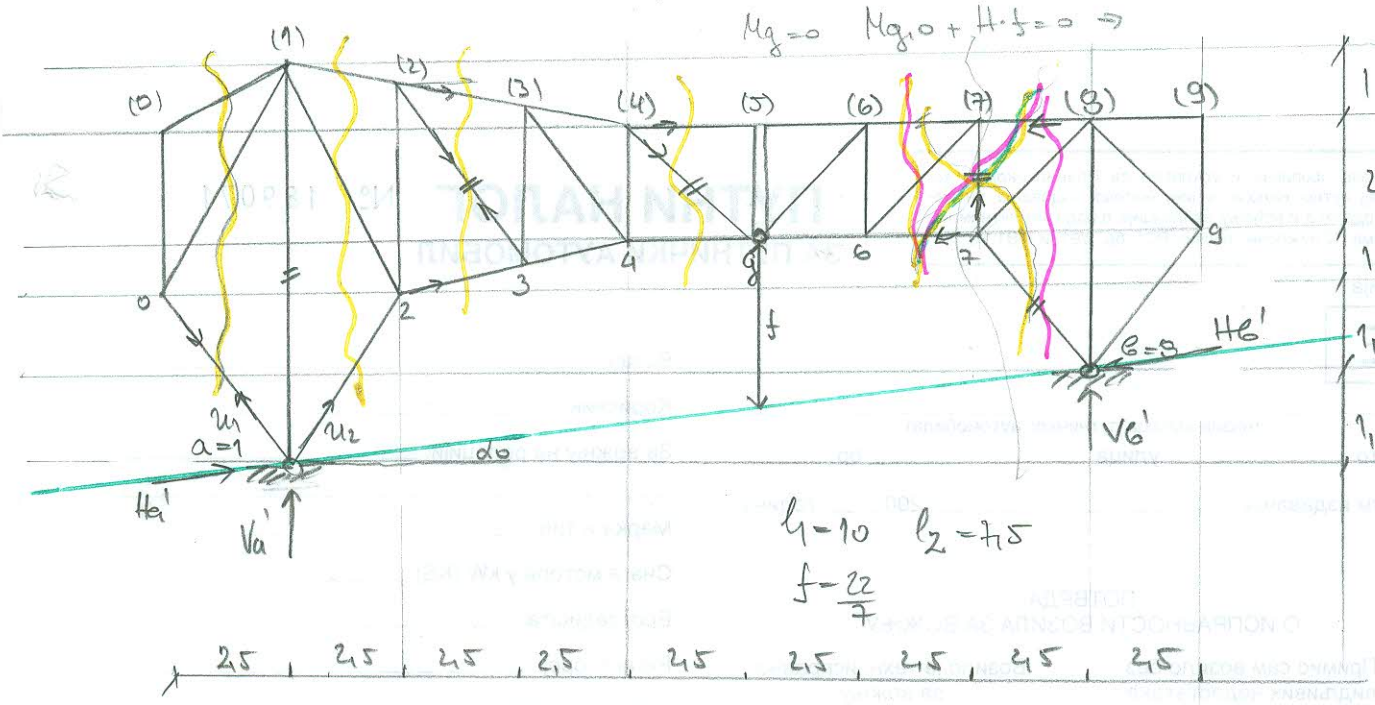
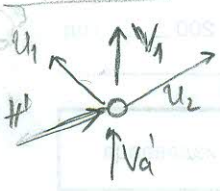


$M_g = 0 \quad M_{g,0} + H \cdot f = 0 \Rightarrow$

$l_1 = 10 \quad l_2 = 7{,}5$

$f = \frac{22}{7}$

$V_1 = \dots$



$\Sigma V = 0 \quad V_1 + u_1 \cdot \sin\beta_1 + u_2 \cdot \sin\beta_2 + H_a' \sin\alpha_0 + V_a' = 0$

$V_1 = -V_a' - H \operatorname{tg}\alpha_0 - u_1 \sin\beta_1 - u_2 \sin\beta_2$

$u_1 = \dots$

$\Sigma M_{(1)} = 0 \quad \curvearrowright \quad M_{(1),0} - u_1 \cdot h_1 \cdot \cos\beta_1 = 0$

$$u_1 = \frac{1}{\cos\beta_1} \cdot \frac{M_{(1),0}}{h_1}$$

$u_2 = \dots$

$\Sigma M_{(1),0} = 0 \quad \curvearrowright \quad M_{(1),0} - u_2 \cdot h_1 \cos\beta_2 - H_a' \cos\alpha_0 \cdot y_{(1)} = 0$

$$u_2 = \frac{1}{\cos\beta_2}\left(\frac{M_{(1),0}}{h_1} - H \frac{y_{(1)}}{h_1}\right)$$

$\operatorname{tg}\alpha_0 = \frac{1{,}5}{17{,}5} = \frac{3}{35} \qquad y_{(1)} = h_1 = 7$

$\operatorname{tg}\beta_1 = \operatorname{tg}\beta_2 = \frac{3}{2{,}5} = \frac{6}{5} \qquad f = 4 - \operatorname{tg}\alpha_0 \cdot 10 = \frac{22}{7}$

$H_{g,0} - H f_1 = 0$

$H = + \frac{M_{g,0}}{f} \Rightarrow$

$H^{(A)} = + \frac{l_1}{f} = \frac{10}{22} \cdot 7 = \frac{35}{11}$

$H^{(B)} = \frac{l_2}{f} = \frac{7{,}5 \cdot 7}{22} = \frac{105}{44}$

$$V_1 = -V_a' - H \cdot \operatorname{tg}\alpha_0 - \frac{\sin\beta_1}{\cos\beta_1}\frac{M_{(1),0}}{h_1} - \frac{\sin\beta_2}{\cos\beta_2} \cdot \left(\frac{M_{(1),0}}{h_1} - H \frac{y_{(1)}}{h_1}\right)$$

$$V_1 = -V_a' - \operatorname{tg}\beta_1 \frac{M_{(1),0}}{h_1} - \operatorname{tg}\beta_2 \frac{M_{(1),0}}{h_1} - H(\operatorname{tg}\alpha_0 - \operatorname{tg}\beta_2)$$

$$= -V_a' - 2\frac{\operatorname{tg}\beta_1}{h_1} M_{(1),0} - H(\operatorname{tg}\alpha_0 - \operatorname{tg}\beta_2)$$