$$V_1 = -V_a' - \frac{12}{5}\cdot\frac{1}{7}\cdot M_{(1),0} - H\left(\frac{3}{35} - \frac{6}{5}\right) =$$

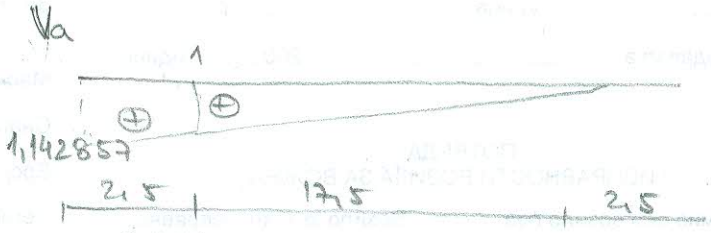
$$= -V_a' - \frac{12}{35} M_{(1),0} + \frac{39}{35} H = V_{1,0} + H V_{1H}$$

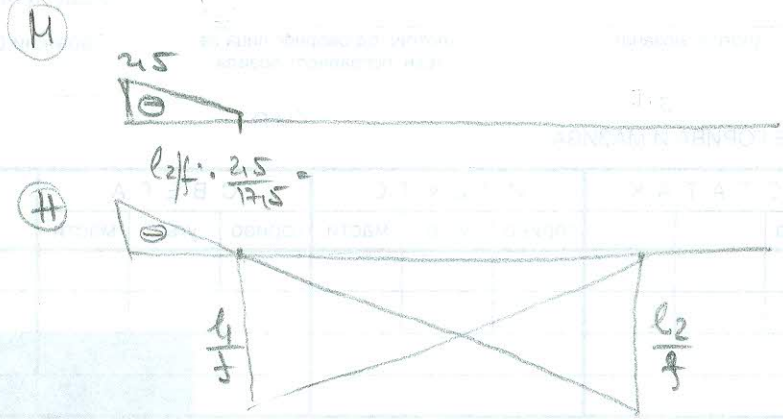
$$V_{1,0}^{(A)} = -V_a'^{(A)} - \frac{12}{35} M_{(1),0}^{(A)} = -1 - \frac{12}{35}\cdot 0 = -1 \qquad \frac{39}{35} H^{(A)} = \frac{39}{11} = 3,\overline{54}$$

$$V_{1,0}^{(B)} = -V_a'^{(B)} - \frac{12}{35} M_{(1),0}^{(B)} = 1 - 0 = 1 \qquad \frac{39}{35} H^{(B)} = 2,65\overline{90}$$

$$V_0 = -1,142857 - \frac{12}{35}\cdot(-2,5) + \frac{39}{35}\cdot(-0,13409)$$

$$V_0 = -0,66558$$




$$\frac{105}{44}\cdot\frac{2,5}{17,5} = -0,13409$$

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$D_3 = ?$ $\quad \Sigma M_2 = 0$

$$M_{2,0} + O_{(3)} \cdot h_2 \cdot \cos\alpha_3 + D_3 \cdot \cos\gamma_3 \cdot h_2 - H \cdot y_2 = 0$$

$$D_3 = \frac{1}{\cos\gamma_3}\left(-\frac{M_{2,0}}{h_2} - O_{(3)}\cdot\frac{h_2\cos\alpha_3}{h_2} + H\frac{y_2}{h_2}\right)$$

$O_3 = ?$ $\quad \Sigma M_3 = 0$

$$M_{3,0} + O_3 \cdot \cos\alpha_3 \, h_3 - H \cdot y_3 = 0$$

$$O_3 = \frac{1}{\cos\alpha_3}\left(-\frac{M_{3,0}}{h_3} + H\frac{y_3}{h_3}\right)$$

$$D_3 = \frac{1}{\cos\gamma_3}\left(-\frac{M_{2,0}}{h_2} + \frac{M_{3,0}}{h_3} - H\frac{y_3}{h_3} + H\frac{y_2}{h_2}\right)$$

$$tg\,\alpha_3 = \frac{1}{7,5} = \frac{2}{15} \qquad tg\,\gamma_3 = \frac{0,5}{2,5} = \frac{1}{5}$$

$$h_2 = 4 - tg\,\alpha_3 \cdot 2,5 = 4 - \frac{2,5}{7,5} = \frac{11}{3}$$

$$h_3 = 4 - 2,5\cdot 2\cdot\frac{1}{7,5} - 2,5\cdot\frac{1}{5} = \frac{17}{6}$$

$$(h_2 - 2,5\cdot tg\,\gamma_3) = \frac{11}{3} - \frac{2,5}{5} = \frac{19}{6}$$

$$tg\,\gamma_3 = \frac{19}{6}\cdot\frac{1}{2,5} = \frac{19}{15}$$