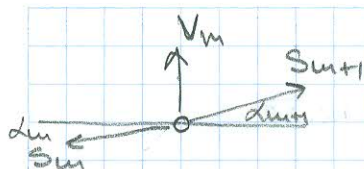


$$* S_m = \frac{H}{\cos \alpha_m}$$

$$V_m = H (\operatorname{tg} \alpha_m - \operatorname{tg} \alpha_{m+1})$$



$$\sum H = 0 \quad S_m \cos \alpha_m = S_{m+1} \cos \alpha_{m+1} - H$$

$$S_m = \frac{H}{\cos \alpha_m}$$

$$S_{m+1} = \frac{H}{\cos \alpha_{m+1}}$$

$$\sum V = 0 \quad V_m + S_{m+1} \sin \alpha_{m+1} - S_m \sin \alpha_m = 0$$

$$V_m = H (\operatorname{tg} \alpha_m - \operatorname{tg} \alpha_{m+1})$$

$$\operatorname{tg} \alpha_1 = \frac{8}{8} = \frac{3}{4}$$

$$\cos \alpha_1 = \frac{4}{5}$$

$$S_1 = -286,36 \text{ kN}$$

$$V_1 = -114,54 \text{ kN}$$

$$\operatorname{tg} \alpha_2 = \frac{2}{8} = \frac{1}{4}$$

$$\cos \alpha_2 = \frac{4}{\sqrt{17}}$$

$$S_2 = -236,1415$$

$$V_2 = -57,27$$

$$\operatorname{tg} \alpha_3 = 0$$

$$\cos \alpha_3 = 1$$

$$S_3 = -229,09$$

$$V_3 = -38,18$$

$$\operatorname{tg} \alpha_4 = -\frac{1}{6}$$

$$\cos \alpha_4 = \frac{6}{\sqrt{37}}$$

$$S_4 = -232,2509$$

$$V_4 = 0$$

$$\operatorname{tg} \alpha_5 = -\frac{1}{6}$$

$$\cos \alpha_5 = \frac{6}{\sqrt{37}}$$

$$S_5 = -232,2509$$

$$V_5 = -76,36$$

$$\operatorname{tg} \alpha_6 = -\frac{8}{12} = -\frac{2}{3}$$

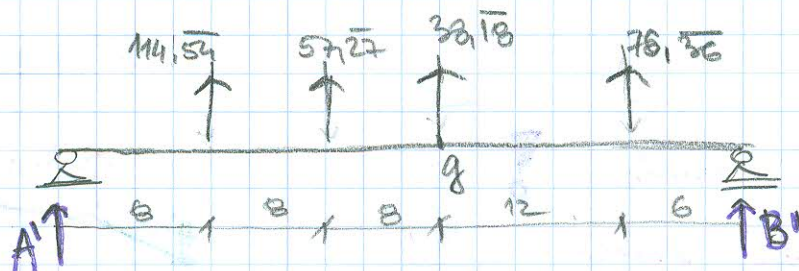
$$\cos \alpha_6 = \frac{3}{5}$$

$$S_6 = -256,1314$$

Koji mi je smer

Uticaj. l. za  $S_m$ ,  $V_m$  ista su kao  $H$  samo pomnož. sa  $\cos \alpha_m$  i  $\operatorname{tg} \alpha_m - \operatorname{tg} \alpha_{m+1}$

ODREĐUJEM REACIJE OSLONAKA OD UNUTRAŠNJEK OPTEREĆENJA



A' i V na istoj gredi

$$\sum M_A = 0 \quad B' \cdot 42 - 76,36 \cdot 36 - 38,18 \cdot 24 - 57,27 \cdot 18 - 114,54 \cdot 8 = 0$$

$$B' = 130,90$$

$$\sum V = 0 \quad A' - 114,54 - 57,27 - 38,18 - 76,36 + B' = 0$$

$$A' = 155,45$$

$$A + A' = A_0 \Rightarrow A = A_0 - A' = 113,3^\circ - 155,45 = -42,12$$

$$B = B_0 - B' = 146,6^\circ - 130,90 = 15,75$$