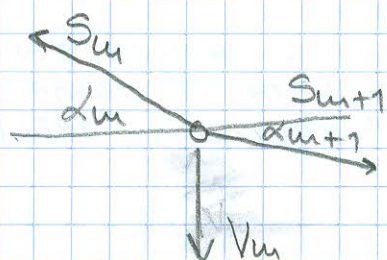


3) Čvorovi: jer znam H , a sve se preko njega izražava i zavisí samo od α_m .



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

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

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

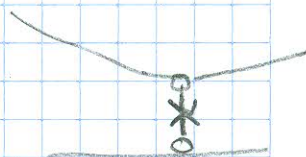
$$S_{m+1} = \frac{H}{\cos \alpha_{m+1}}$$

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

$$H = 32,72$$

$$V_m = -S_{m+1} \sin \alpha_{m+1} + S_m \sin \alpha_m$$

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



$$\tan \alpha_1 = \frac{6}{8} = \frac{3}{4}$$

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

$$S_1 = 40,90 \quad V_1 = -16,36$$

$$\tan \alpha_2 = \frac{2}{8} = \frac{1}{4}$$

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

$$S_2 = 33,735 \quad V_2 = -8,18$$

$$\tan \alpha_3 = 0$$

$$\cos \alpha_3 = 1$$

$$S_3 = 32,72 \quad V_3 = -5,45$$

$$\tan \alpha_4 = -\frac{1}{6}$$

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

$$S_4 = 33,179 \quad V_4 = 0$$

$$\tan \alpha_5 = -\frac{1}{6}$$

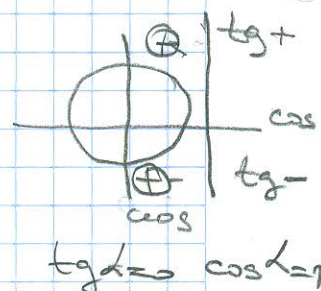
$$\cos \alpha_5 = \frac{6}{\sqrt{37}}$$

$$S_5 = 33,179 \quad V_5 = -10,90$$

$$\tan \alpha_6 = \frac{-6}{12} = -\frac{1}{2}$$

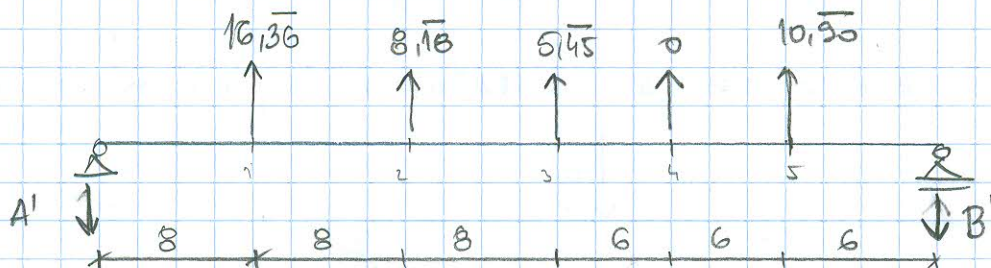
$$\cos \alpha_6 = \frac{2}{\sqrt{5}}$$

$$S_6 = 36,590$$



→ UNUTRAŠNJE SILE

4) SADA ČRTAM ODGOVARAJUĆU GREDU SA SILAMA $V_m \Rightarrow A'$



$$\sum M_B = 0 \quad A' \cdot 42 - 16,36 \cdot 34 - 8,18 \cdot 26 - 5,45 \cdot 18 - 10,90 \cdot 6 = 0$$

$$A' = 22,2079$$

$$\sum V = 0 \quad -22,2079 + 16,36 + 8,18 + 5,45 + 10,90 - B' = 0$$

$$B' = 18,7013$$

$$A_0 = A' + A \Rightarrow A = A_0 - A'$$

$$A = 21,9048 - 22,2079 = -0,30$$

$$B = 18,0952 - 18,7013 = -0,60$$