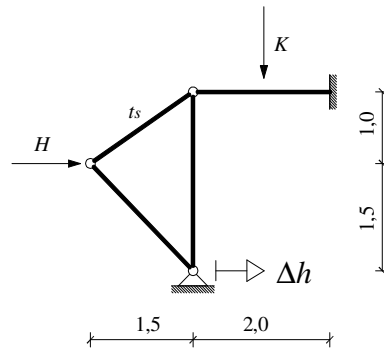


# GS 1. – 14.06.2011.

1. Metodom sila odredite dijagram momenata savijanja.



$$K = 160 \text{ kN}$$

$$H = 120 \text{ kN}$$

$$t_s = 23^\circ \text{ C}$$

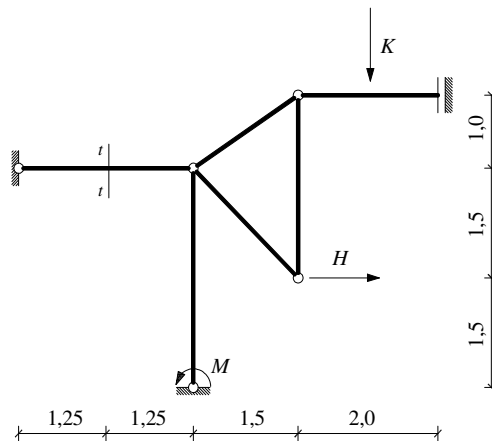
$$\alpha_t = 10^{-5} \text{ K}^{-1}$$

$$\frac{b}{h} = \frac{30}{30} [\text{cm}]$$

$$E = 3 \cdot 10^7 \text{ kN/m}^2$$

$$\Delta h = 1 \text{ cm}$$

2. Grafičkim postupkom odredite sile u presjeku  $t-t$ .



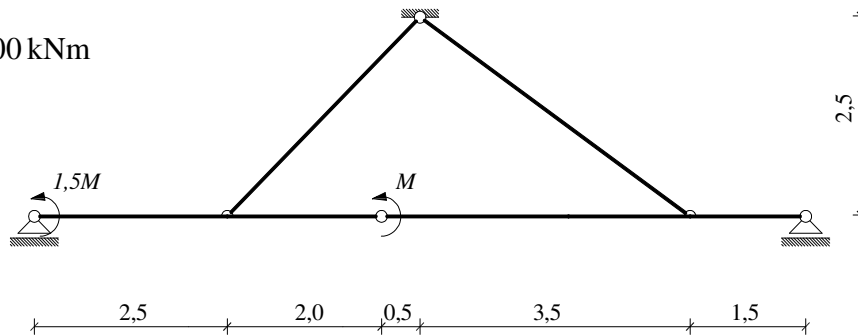
$$M = 300 \text{ kNm}$$

$$K = 160 \text{ kN}$$

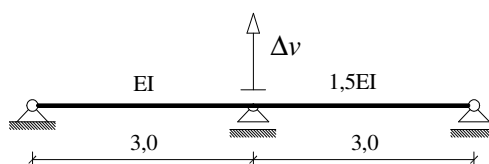
$$H = 100 \text{ kN}$$

3. Superpozicijskim postupkom odredite dijagram momenata savijanja. Pomoću diferencijalnog odnosa odredite dijagram poprečnih sila.

$$M = 100 \text{ kNm}$$



4. Nacrtajte progibnu liniju.



$$EI = 20000 \text{ kNm}^2$$

$$\Delta v = 3 \text{ cm}$$