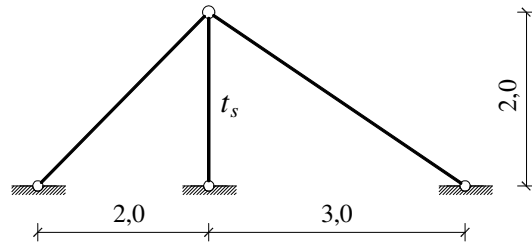


## GS 1. – Popravni kolokvij (2.) (2006./2007.)

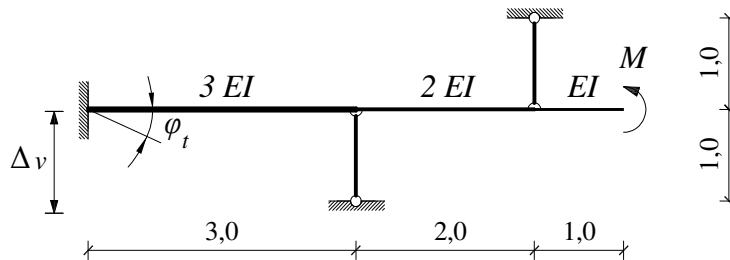
1. (20)      Odredite sile u štapovima.

štapovi:  
 $E = 2 \cdot 10^8 \text{ kN/m}^2$   
 $r = 3 \text{ cm}$



$$t_s = 10 \text{ } ^\circ\text{C}$$

2. (30)      Nacrtajte  $M$  dijagram.



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

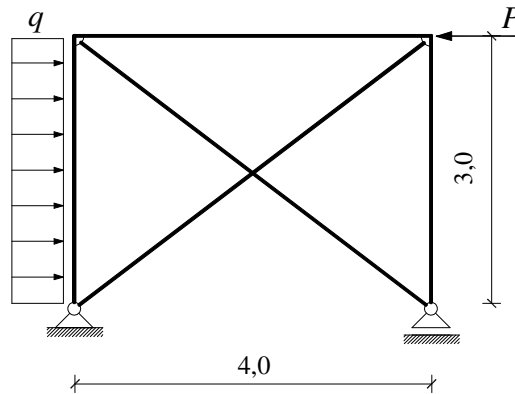
$$\varphi_t = 0,005$$

$$\Delta v = 3,0 \text{ cm}$$

$$EI = 20\,000 \text{ kNm}^2$$

3. (40)      Nacrtajte  $M$ ,  $T$  i  $N$  dijagrame.

okvir:  
 $E = 3 \cdot 10^7 \text{ kN/m}^2$   
 $b/h = 36/60 \text{ cm}$   
 zatege:  
 $E = 2 \cdot 10^8 \text{ kN/m}^2$   
 $b/h = 8/8 \text{ cm}$



$$P = 90 \text{ kN}$$

$$q = 30 \text{ kN/m'}$$

4. (10)      Odredite stupanj statičke neodređenosti.

