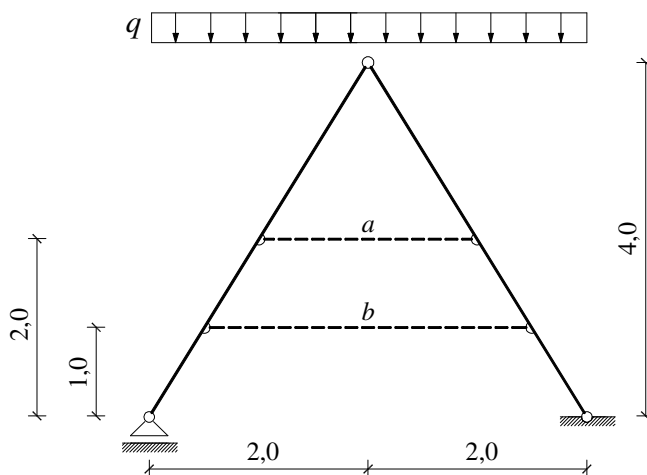


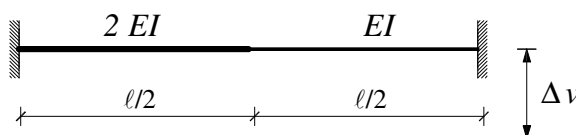
## GS 1. – 18.09.2007.

1. Primjenom postupka superpozicije odredite za koji je položaj zatege ( $a$  ili  $b$ ) moment na nosaču manji.



$$q = 50 \text{ kN/m'}$$

2. Izračunajte progib u polovici raspona.



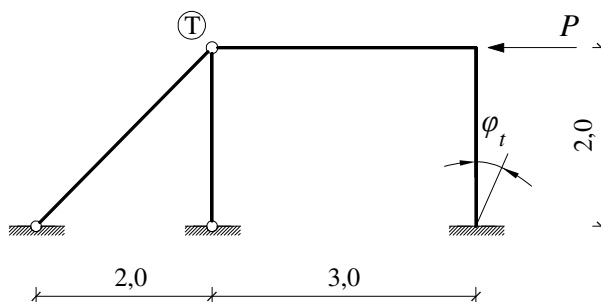
$$EI = 20\,000 \text{ kNm}^2$$

$$\Delta v = 2,0 \text{ cm}$$

3. Primjenom metode sila nacrtajte  $M$  dijagram.

okvir:  
 $E = 3 \cdot 10^7 \text{ kN/m}^2$   
 $b/h = 50/60 \text{ cm}$

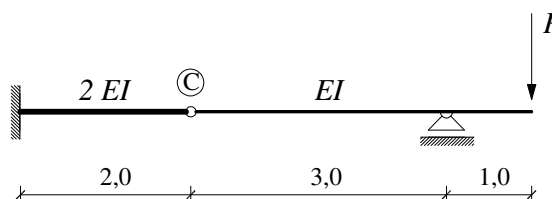
kosi štap:  
 $E = 2 \cdot 10^8 \text{ kN/m}^2$   
 $b/h = 10/10 \text{ cm}$



$$P = 150 \text{ kN}$$

$$\varphi_t = 0,006$$

4. Nacrtajte progibnu liniju nosača i izračunajte progib točke C.



$$P = 150 \text{ kN}$$

$$EI = 40\,000 \text{ kNm}^2$$