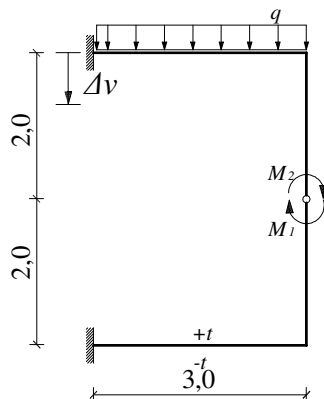


## GS 1. – 02.09.2008.

1. a) Metodom sila odredite  $M$  dijagram.  
 b) Odredite horizontalni pomak zgloba.



$$q = 32 \text{ kN/m}$$

$$\Delta v = 2 \text{ mm}$$

$$M_2 = 202 \text{ kNm}$$

$$M_1 = 110 \text{ kNm}$$

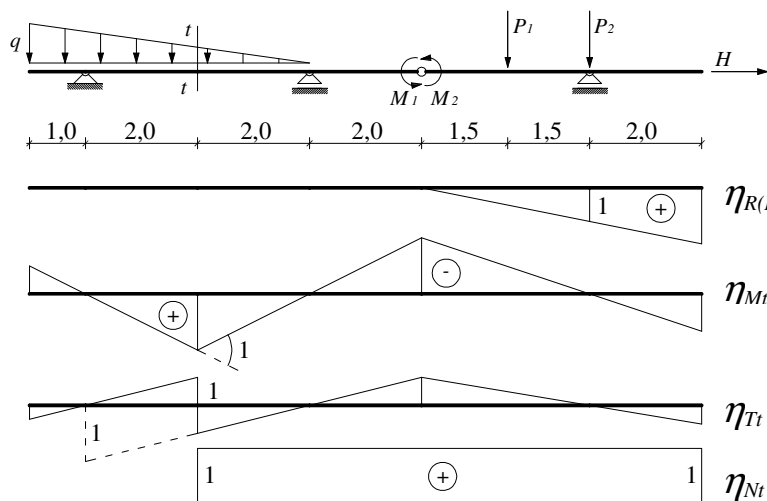
$$\pm t = 17^\circ \text{ C}$$

$$EI = 22000 \text{ kN/m}^2$$

$$h = 35 \text{ cm}$$

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

2. Pomoću utjecajnih linija za reakciju ležaja D i sile u presjeku t-t odredite njihove veličine za zadano vanjsko opterećenje



$$M_1 = 165 \text{ kNm}$$

$$M_2 = 105 \text{ kNm}$$

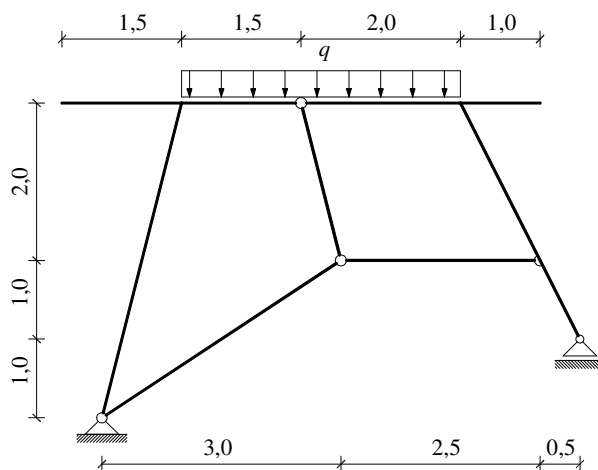
$$q = 46 \text{ kN/m}$$

$$P_1 = 165 \text{ kN}$$

$$P_2 = 105 \text{ kN}$$

$$H = 98 \text{ kN}$$

3. Primjenom superpozicije nacrtajte  $M$ -dijagram.



$$q = 56 \text{ kN/m}$$