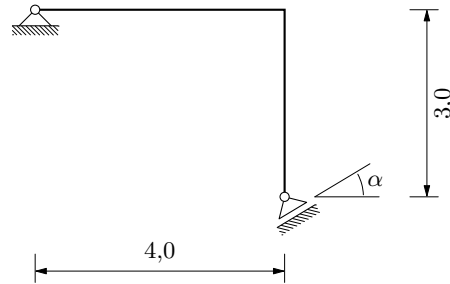


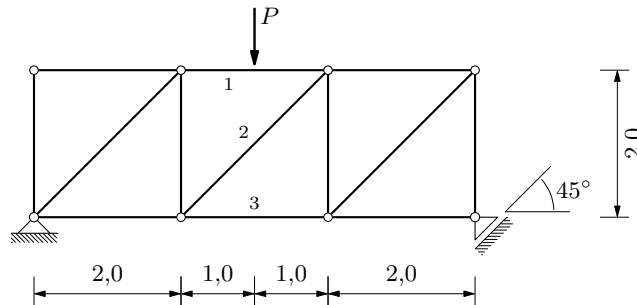
GS 1. — 1. kolokvij (A) (2005./2006.)

1. (10) Analizirajte geometrijsku promjenjivost/nepromjenjivost sistema za $\text{tg } \alpha = 0, 3/4, 1, 4/3, \infty$.



2. (30) Odredite sile u štapovima 2 i 3 te sile u štapu 1 u presjeku neposredno lijevo od hvatišta sile P .

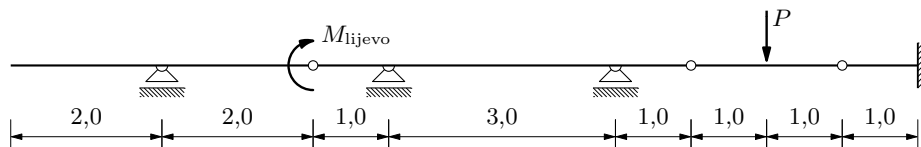
$$P = 100 \text{ kN}$$



3. (25) Primjenom principa superpozicije (grafičkim ili grafoanalitičkim postupkom) nacrtajte M i T dijagrame.

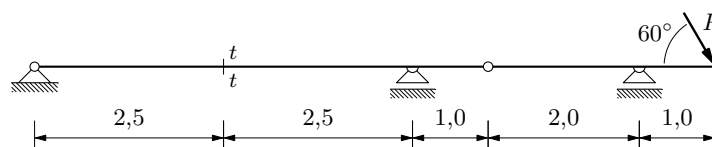
$$P = 100 \text{ kN}$$

$$M_{\text{lijevo}} = 100 \text{ kNm}$$



4. (15) Grafičkim postupkom odredite sile u presjeku $t-t$.

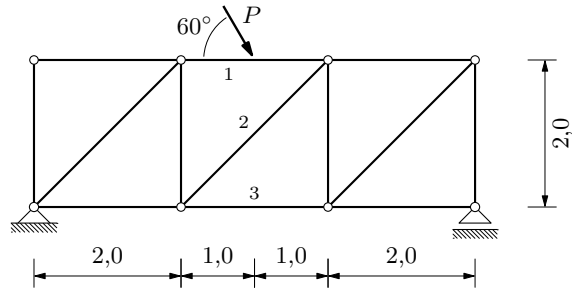
$$P = 100 \sqrt{2} \text{ kN}$$



GS 1. — 1. kolokvij (B) (2005./2006.)

1. (30) Odredite sile u štapovima 2 i 3 te sile u štapu 1 u presjeku neposredno desno od hvatišta sile P .

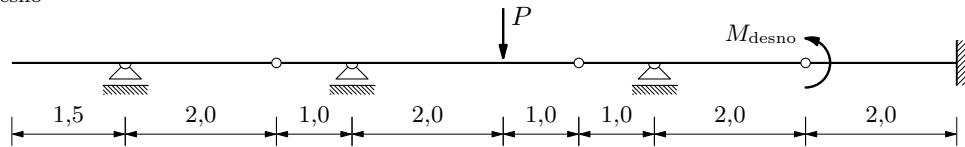
$$P = 100 \text{ kN}$$



2. (25) Primjenom principa superpozicije (grafičkim ili grafoanalitičkim postupkom) nacrtajte M i T dijagrame.

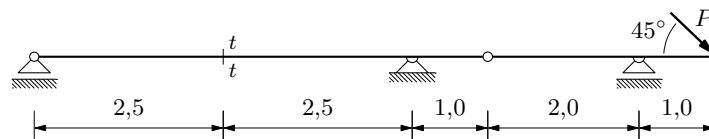
$$P = 100 \text{ kN}$$

$$M_{\text{desno}} = 100 \text{ kNm}$$

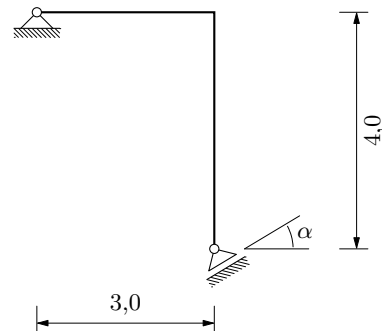


3. (15) Grafičkim postupkom odredite sile u presjeku $t - t$.

$$P = 100\sqrt{2} \text{ kN}$$



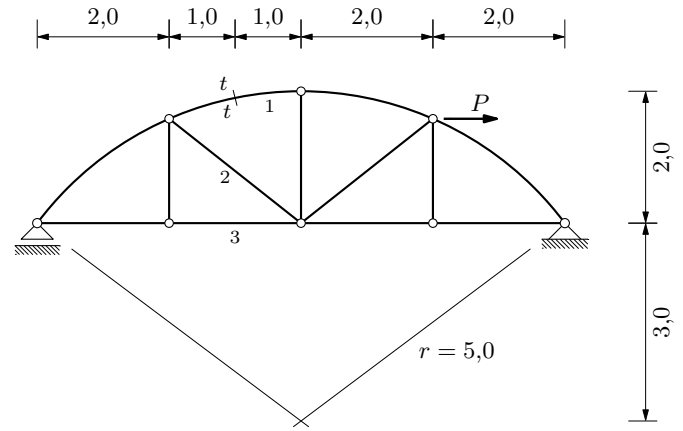
4. (10) Analizirajte geometrijsku promjenjivost/nepromjenjivost sistema za $\text{tg } \alpha = 0, 3/4, 1, 4/3, \infty$.



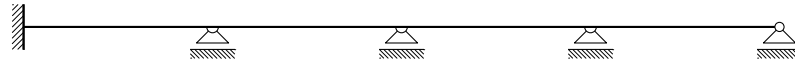
GS 1. — 1. kolokvij (C) (2005./2006.)

1. (25) Odredite sile u štapovima 2 i 3 te sile u presjeku $t-t$ štapa 1. (Gornji je pojas kružni luk.)

$P = 100 \text{ kN}$



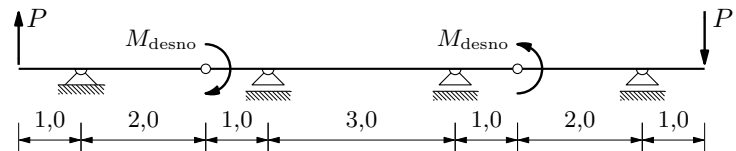
2. (10) Dodavanjem zglobova zadani kontinuirani nosač pretvorite u Gerberov nosač.



3. (25) Primjenom principa superpozicije (grafičkim ili grafoanalitičkim postupkom) nacrtajte M i T dijagrame.

$P = 100 \text{ kN}$

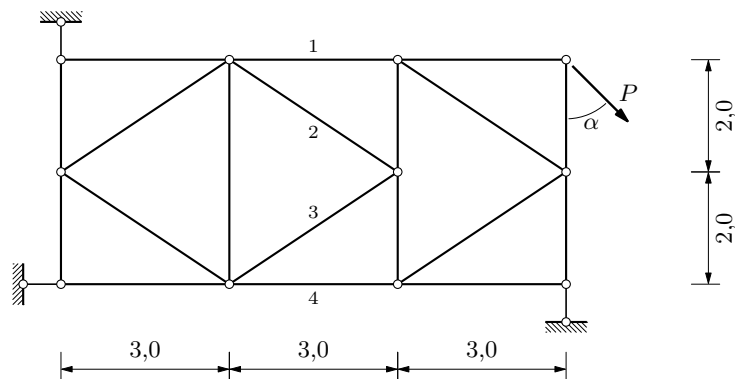
$M_{\text{desno}} = 100 \text{ kNm}$



4. (20) Odredite sile u štapovima 1 – 4.

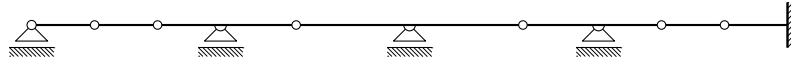
$P = 100 \text{ kN}$

$\text{tg } \alpha = 1$



GS 1. — 1. kolokvij (D) (2005./2006.)

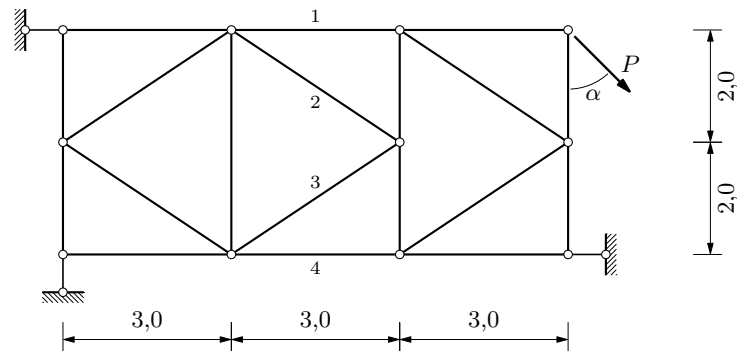
1. (10) Uklanjanjem zglobova i/ili dodavanjem ležajeva pretvorite zadani mehanizam u Gerberov nosač.



2. (20) Odredite sile u štapovima 1 – 4.

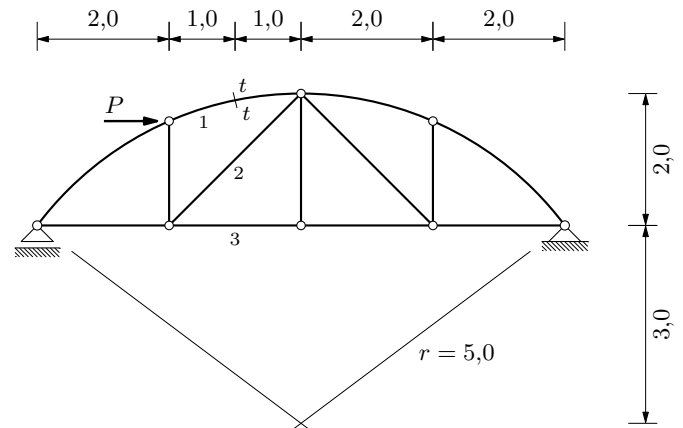
$$P = 100 \text{ kN}$$

$$\text{tg } \alpha = 1$$



3. (25) Odredite sile u štapovima 2 i 3 te sile u presjeku $t - t$ štapa 1. (Gornji je pojas kružni luk.)

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



4. (25) Primjenom principa superpozicije (grafičkim ili grafoanalitičkim postupkom) nacrtajte M i T dijagrame.

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

$$M_{\text{desno}} = 100 \text{ kNm}$$

