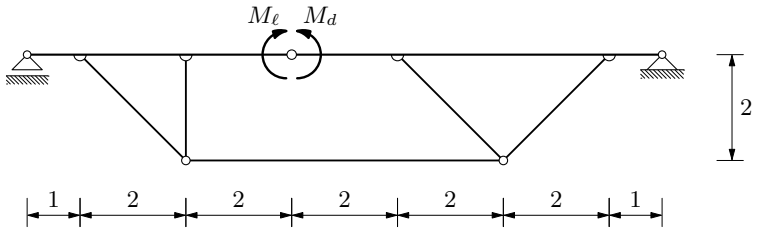
GS 1. — 2. kolokvij (A) (2004./2005.)

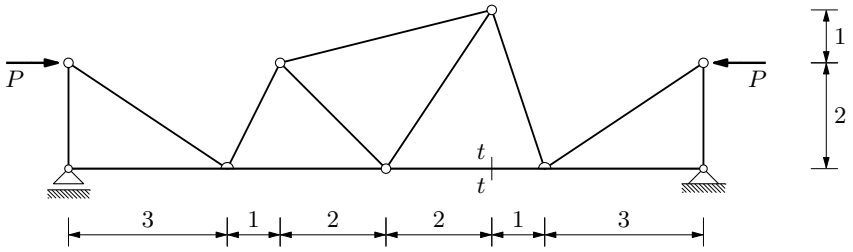
1. (30) Grafoanalitičkim postupkom nacrtajte M dijagram.

$M_\ell = 50$ kNm, $\quad M_d = 100$ kNm



2. (20) Odabranim postupkom odredite sile u zadanom presjeku.

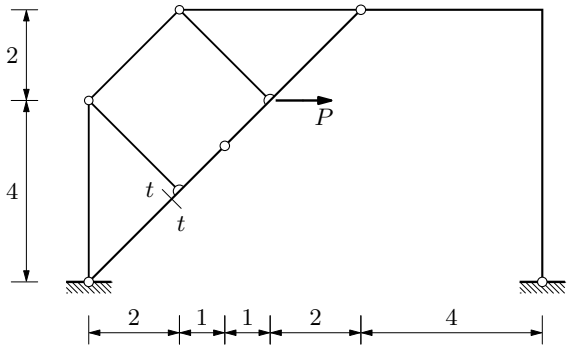
$P = 100$ kN



3. (10) Izvedite diferencijalne jednadžbe ravnoteže za ravni štap u ravnini xz.

4. (20) Grafičkim postupkom odredite sile u zadanom presjeku.

$P = 100$ kN

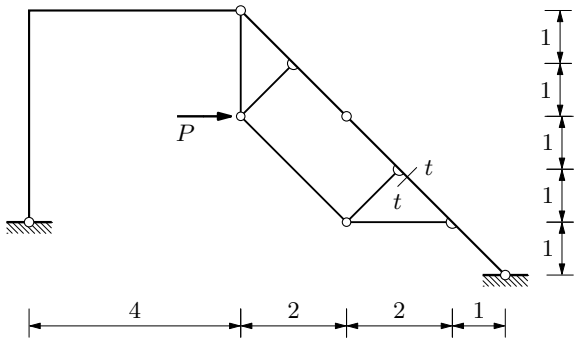


GS 1. — 2. kolokvij (B) (2004./2005.)

1. (10) Izvedite diferencijalne jednadžbe ravnoteže za ravni štap u ravnini xy.

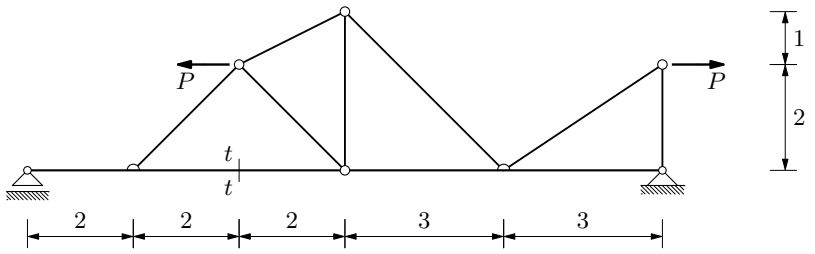
2. (20) Grafičkim postupkom odredite sile u zadanom presjeku.

$P = 100$ kN



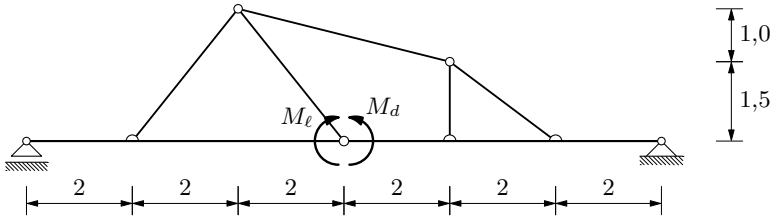
3. (20) Odabranim postupkom odredite sile u zadanom presjeku.

$P = 100$ kN



4. (30) Grafoanalitičkim postupkom nacrtajte M dijagram.

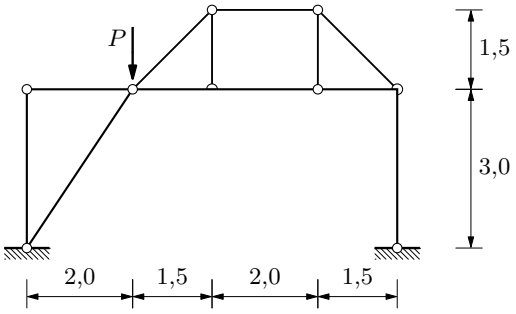
$M_\ell = 150$ kNm (djeluje na gredu), $M_d = 75$ kNm



GS 1. — 2. kolokvij (C) (2004./2005.)

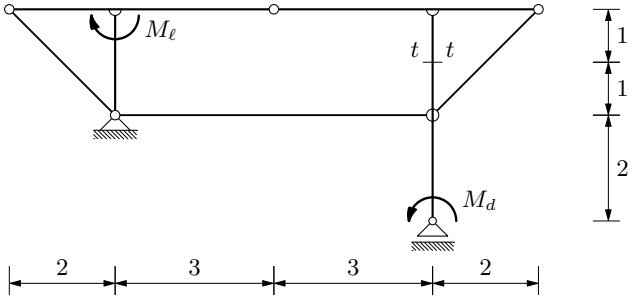
1. (20) Grafičkim ili grafoanalitičkim postupkom nacrtajte M dijagram.

$P = 100$ kN

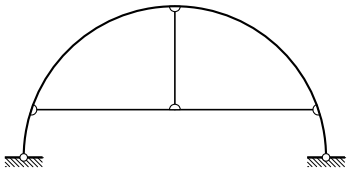


2. (30) Grafičkim postupkom odredite sile u presjeku $t - t$.

$M_\ell = 50$ kNm,
$M_d = 100$ kNm

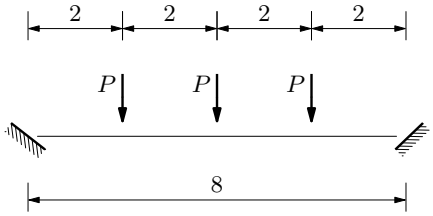


3. (5) Izračunajte stupanj statičke neodređenosti.



4. (25) Odredite mogući oblik osi trozglobnog okvira nad zadanim rasponom, sa zglobom u polovini raspona, tako da za zadano opterećenje u okviru nema momenata savijanja.

$P = 125$ kN

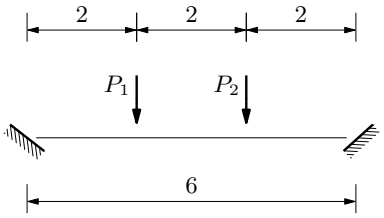


GS 1. — 2. kolokvij (D) (2004./2005.)

1. (25) Odredite mogući oblik osi trozglobnog okvira nad zadanim rasponom, sa zglobom u polovini raspona, tako da za zadano opterećenje u okviru nema momenata savijanja.

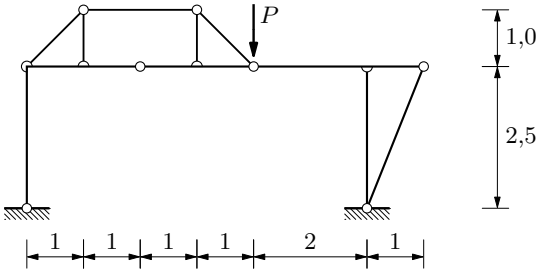
$P_1 = 100$ kN

$P_2 = 75$ kN



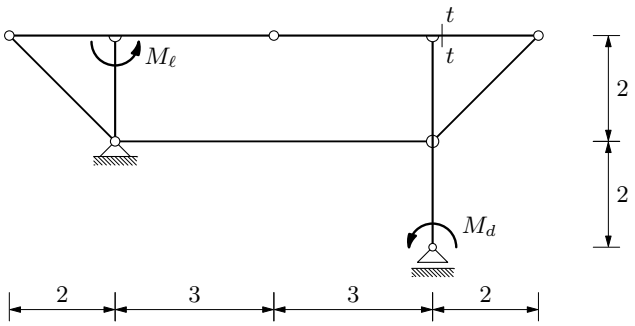
2. (20) Grafičkim ili grafoanalitičkim postupkom nacrtajte M dijagram.

$P = 100$ kN



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

$M_\ell = 100$ kNm,
$M_d = 100$ kNm



4. (5) Izračunajte broj stupnjeva slobode.