Analizom rezultata ostvarenih tokom tekućeg semestra, uočeno je da sledeći studenti nemaju ispunjene predispitne obaveze:

| | | | |
|---|---|---|---|
| 1 | MP 4\2021 | Nestorović | Mihajlo |
| 2 | MP 9\2021 | Tabaković | Mladen |
| 3 | MP 33\2021 | Lazić | Milan |
| 4 | MP 36\2021 | Milošević | Pavle |
| 5 | MP 38\2021 | Vuković | Mateja |
| 6 | MP 41\2021 | Radivojević | Petar |
| 7 | MP 56\2021 | Niketić | Ognjen |
| 8 | MP 57\2021 | Šukić | David |
| 9 | MP 58\2021 | Stojičić | Đorđe |
| 10 | MP 59\2021 | Vujičić | Aleksandar |
| 11 | MP 60\2021 | Jelić | Vladimir |
| 12 | MP 61\2021 | Dejanović | Nikola Mitre |
| 13 | MP 62\2021 | Janković | Aleksandar |
| 14 | MP 64\2021 | Todorović | Boško |
| 15 | MP 67\2021 | Oyeyele | Samuel-Luka-Oyerinsola |
| 16 | MP 68\2021 | Miškić | Siniša |
| 17 | MP 82\2021 | Plotan | Nikola |
| 18 | MP 83\2021 | Klincov | Kristijan |
| 19 | MP 87\2021 | Glušac | Milica |
| 20 | MP 89\2021 | Vujkov | Katarina |
| 21 | MP 94\2021 | Mandić | Lazar |

Da bi im se omogućilo da ih ispune i ne slušaju predmet Mehanika I ponovo sledeće godine, pruža im se mogućnost da urade domaći zadatak ponovo po uputstvu datom niže.

Rok za predaju zadatka je: 18.1.2022., Kula 909, kabinet predmetnog nastavnika prof. dr Ivane Kovačić.

**UPUTSTVO ZA IZRADU:** Student radi domaći zadatak čiji se broj jednak rednom broju studenta sa gornje liste.

Zadatak se radi na **jednoj dvolisnici hemijskom olovkom** uz korišćenje odgovarajuće boje za dijagrame presečnih veličina.

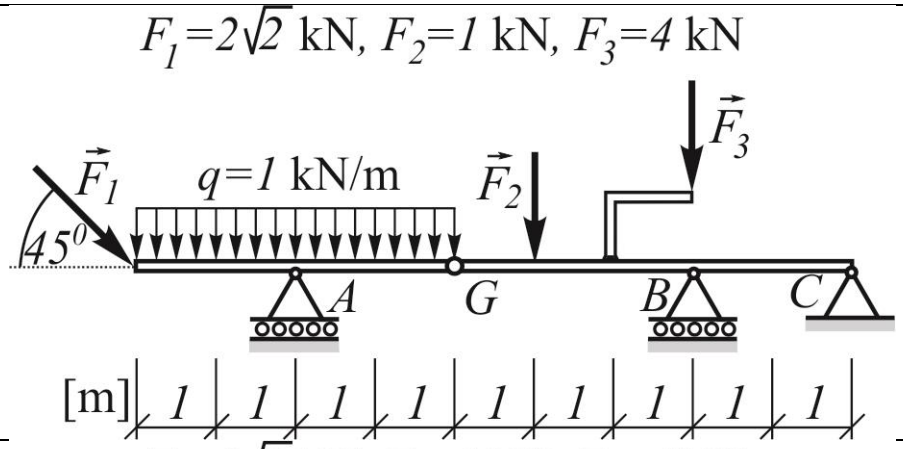
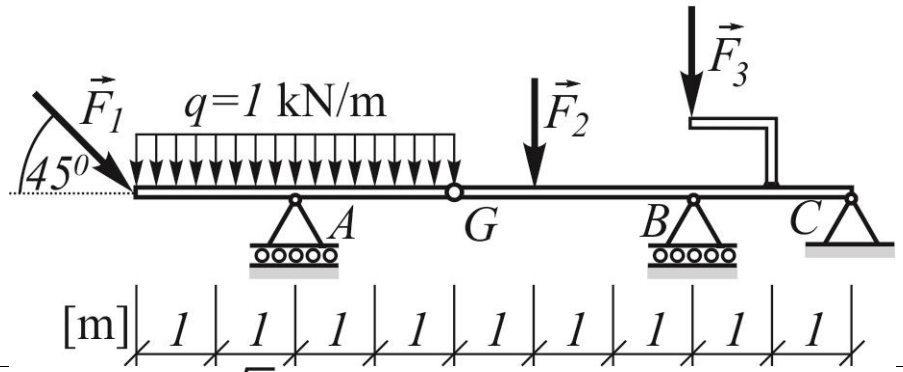
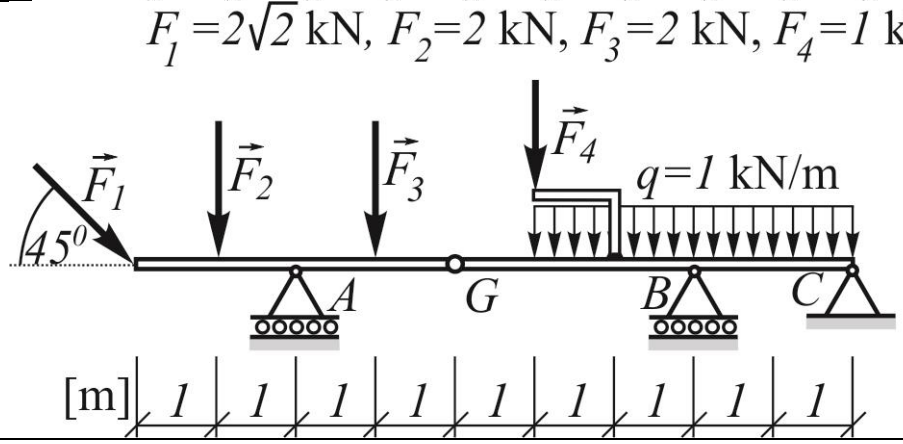
Na prvoj strani dvolisnice student centrirano štampanim slovima piše:

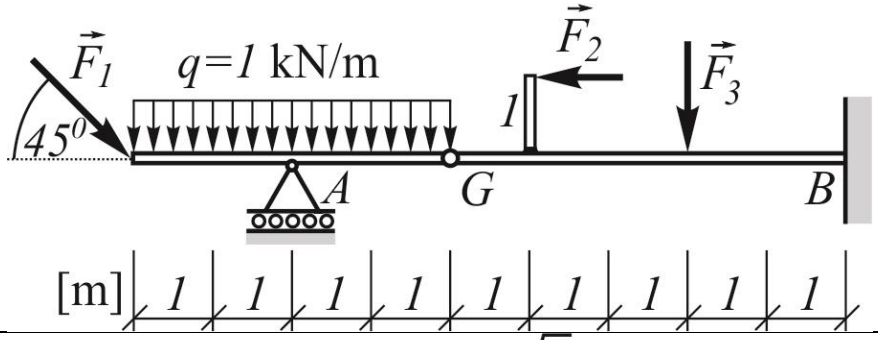
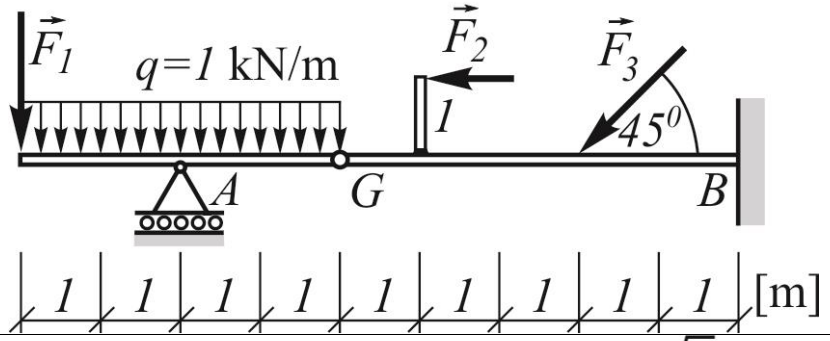
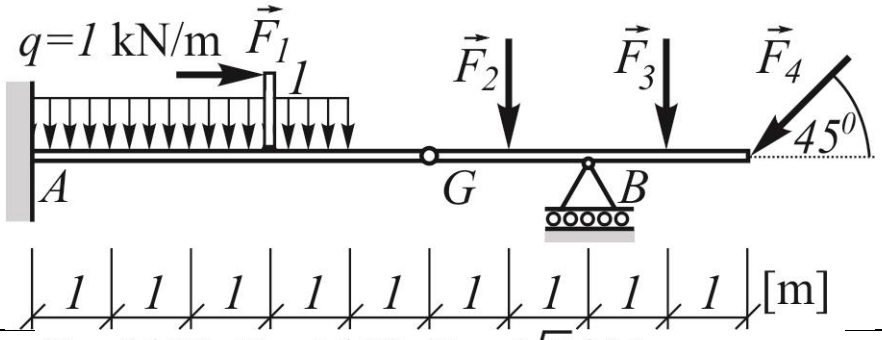
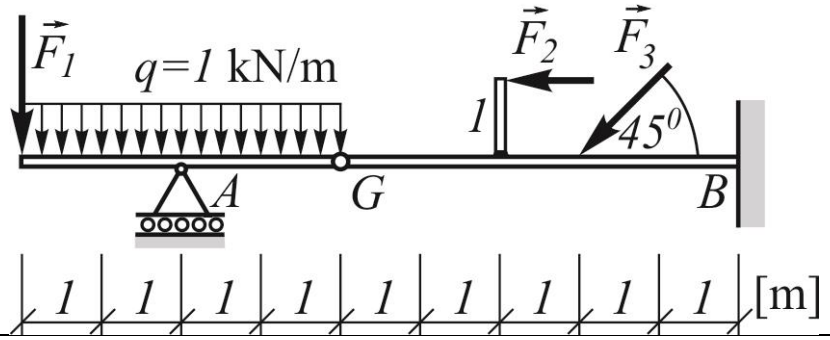
- u prvom redu DOMAĆI ZADATAK IZ MEHANIKE I (MP),
- u drugom redu ime, prezime i broj indeksa.
- Ispod toga se centrirano daje slika nosača sa vrednostima zadatih veličina (videti primer izrade dat na kraju ovog dokumenta).

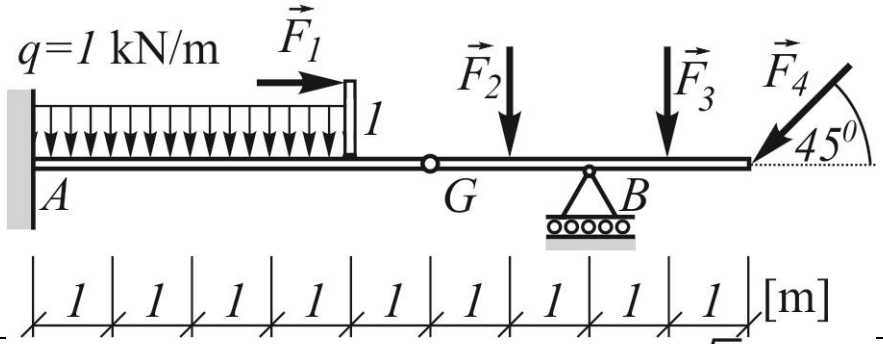
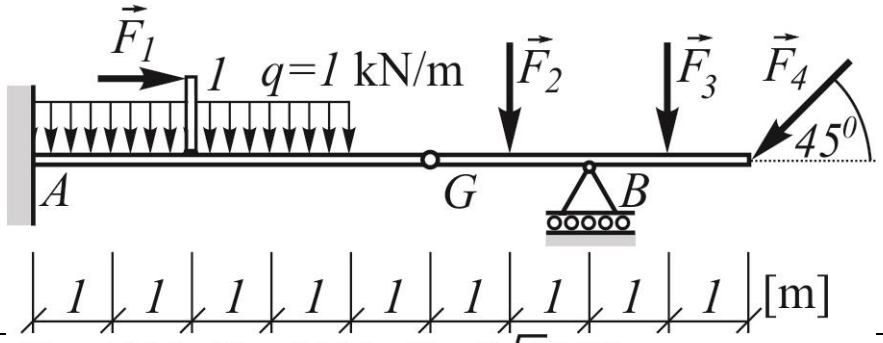
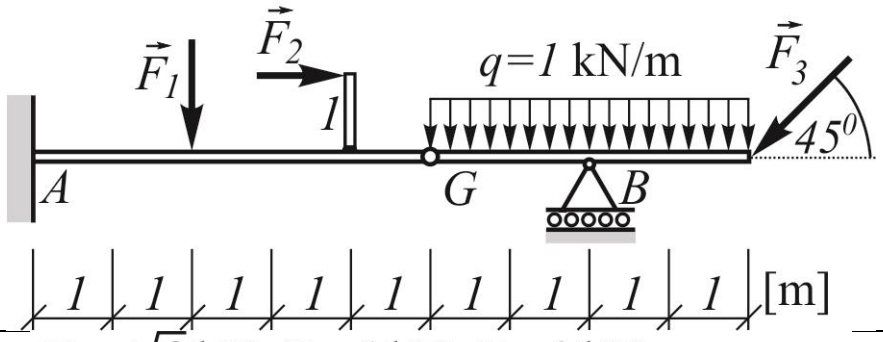
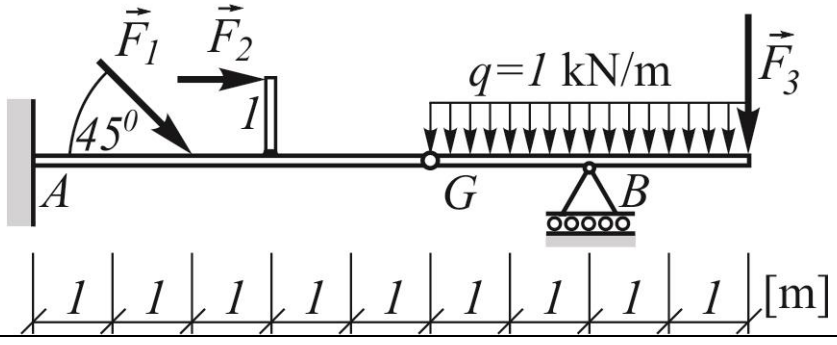
**Na unutrašnjoj levoj strani se daje slika nosača sa dijagramima nacrtanim u razmeri koja mora biti naznačena**.

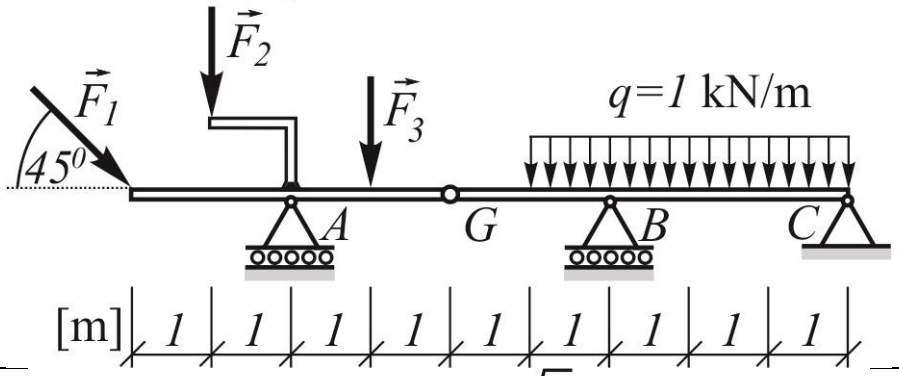
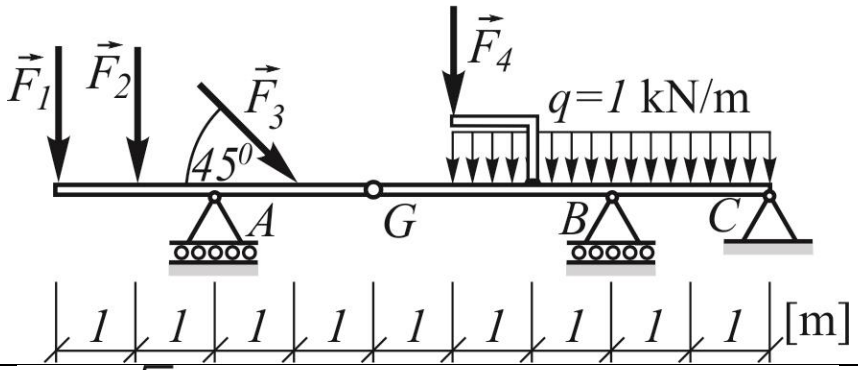
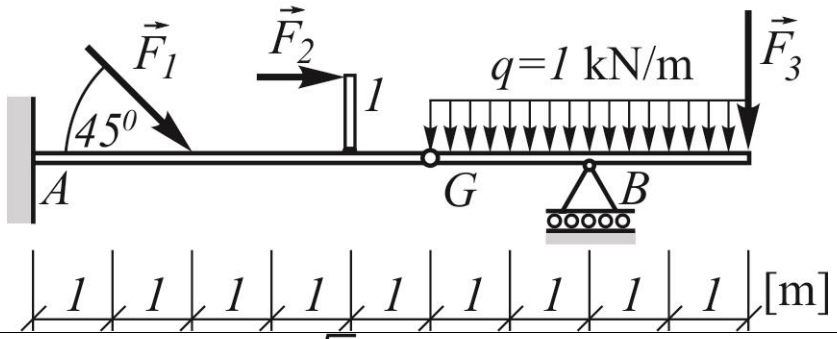
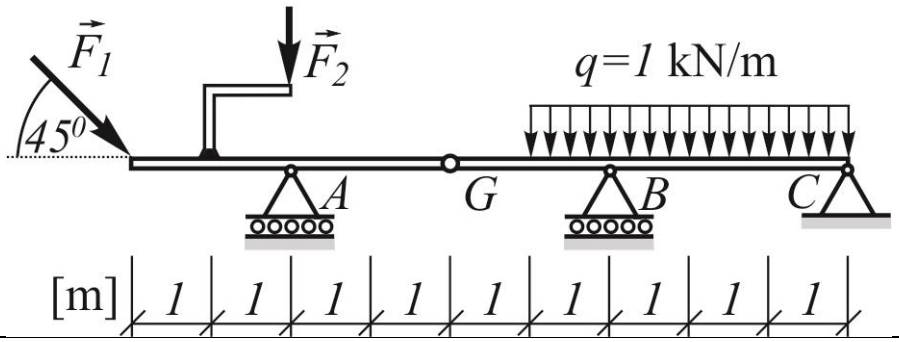
Prateća računica se piše na naredne dve strane dvolisnice.

**TEKST ZADATKA:** Za zadati Gerberov nosač odrediti otpore oslonaca i nacrtati statičke dijagrame presečnih veličina.

| Broj zadatka | Slika nosača |
|---|---|
| 1 |  |
| 2 |  |
| 3 |  |

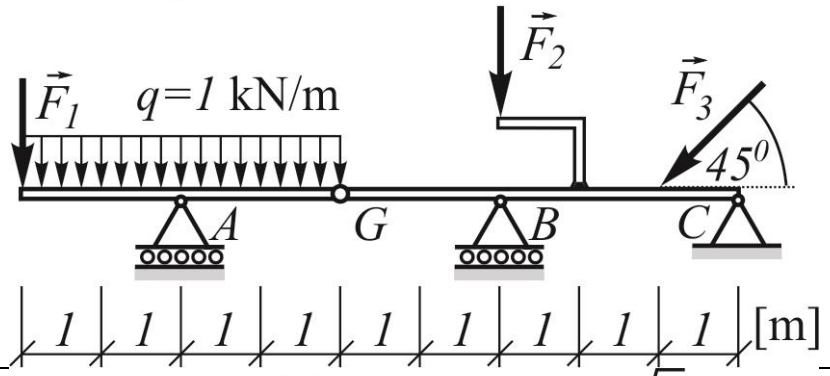
| | |
|---|---|
| 4 | $F_1=2\sqrt{2}$ kN, $F_2=1$ kN, $F_3=4$ kN<br> |
| 5 | $F_1=2$ kN, $F_2=1$ kN, $F_3=4\sqrt{2}$ kN<br> |
| 6 | $F_1=1$ kN, $F_2=2$ kN, $F_3=2$ kN, $F_4=2\sqrt{2}$ kN<br> |
| 7 | $F_1=2$ kN, $F_2=1$ kN, $F_3=4\sqrt{2}$ kN<br> |

| | |
|---|---|
| 8 | $F_1=1$ kN, $F_2=2$ kN, $F_3=2$ kN, $F_4=2\sqrt{2}$ kN<br> |
| 9 | $F_1=1$ kN, $F_2=2$ kN, $F_3=2$ kN, $F_4=2\sqrt{2}$ kN<br> |
| 10 | $F_1=4$ kN, $F_2=1$ kN, $F_3=2\sqrt{2}$ kN<br> |
| 11 | $F_1=4\sqrt{2}$ kN, $F_2=1$ kN, $F_3=2$ kN<br> |

| | |
|---|---|
| 12 | $F_1=\sqrt{2}$ kN, $F_2=2$ kN, $F_3=2$ kN<br> |
| 13 | $F_1=2$ kN, $F_2=2$ kN, $F_3=2\sqrt{2}$ kN, $F_4=1$ kN<br> |
| 14 | $F_1=4\sqrt{2}$ kN, $F_2=1$ kN, $F_3=2$ kN<br> |
| 15 | $F_1=\sqrt{2}$ kN, $F_2=4$ kN<br> |

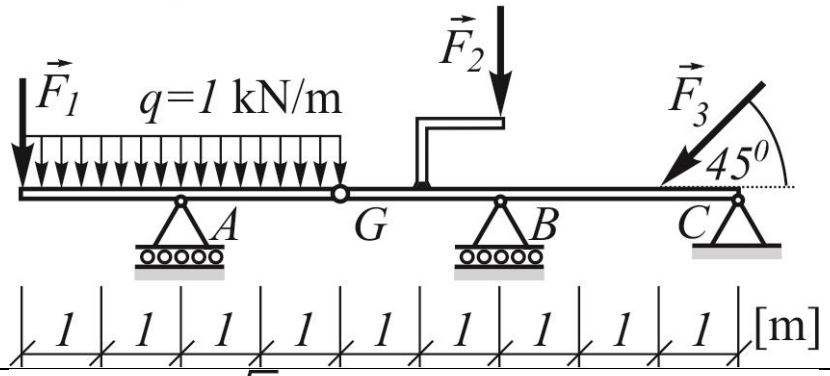
16

$F_1=1$ kN, $F_2=2$ kN, $F_3=2\sqrt{2}$ kN



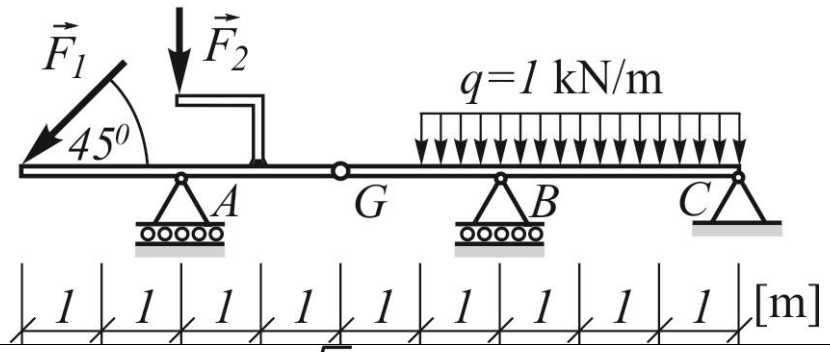

17

$F_1=1$ kN, $F_2=2$ kN, $F_3=2\sqrt{2}$ kN



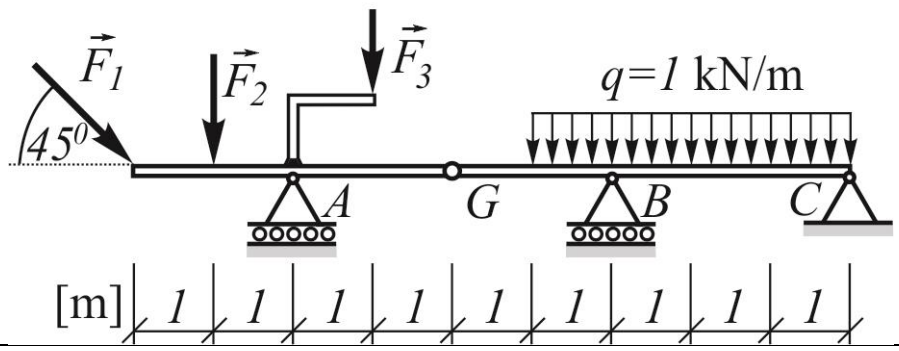

18

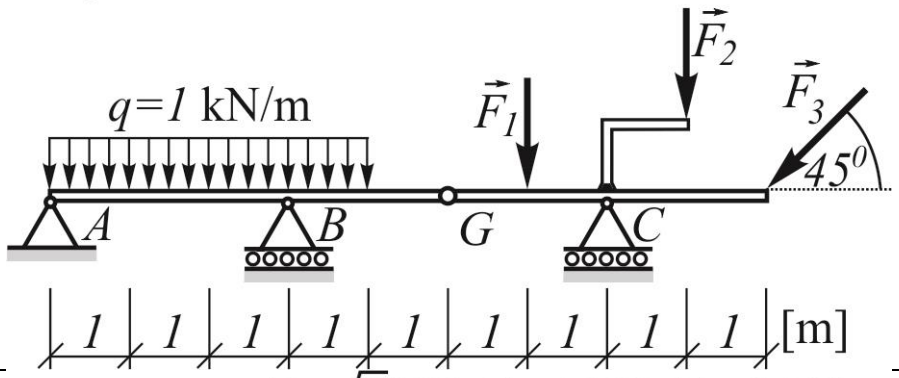
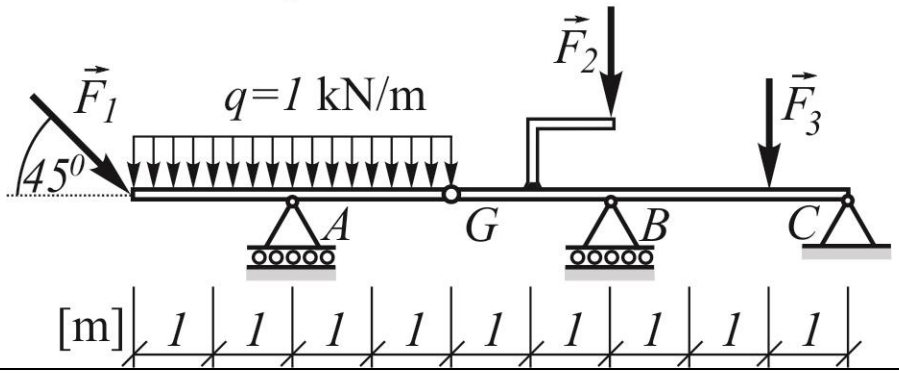
$F_1=\sqrt{2}$ kN, $F_2=4$ kN




19

$F_1=\sqrt{2}$ kN, $F_2=2$ kN, $F_3=2$ kN

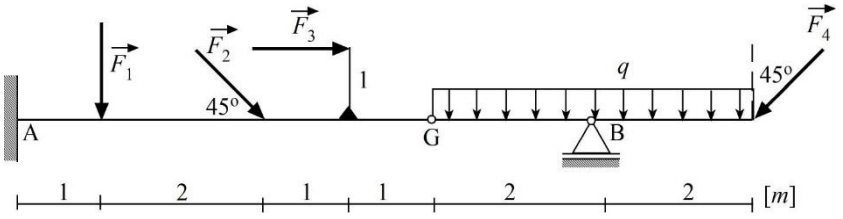


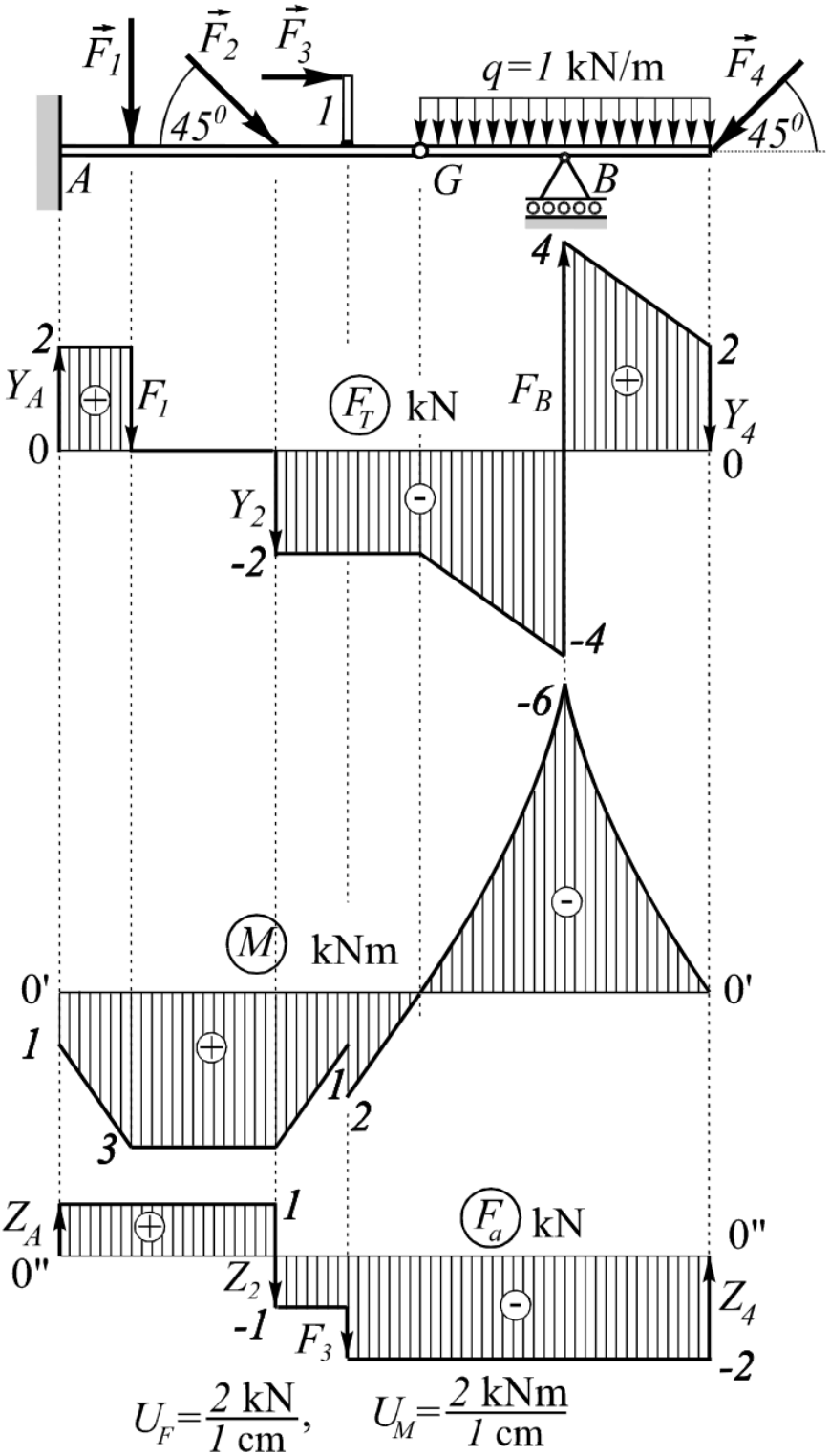
| | |
|---|---|
| 20 | $F_1=2$ kN, $F_2=2$ kN, $F_3=\sqrt{2}$ kN<br> |
| 21 | $F_1=\sqrt{2}$ kN, $F_2=2$ kN, $F_3=2$ kN<br> |

# DOMAĆI ZADATAK IZ MEHANIKE I (MP)
# Petar Petrović, MP 33/20XX

**33.** Za zadati Gerberov nosač odrediti otpore oslonaca i nacrtati statičke dijagrame presečnih veličina.

$q$=1kN/m, $F_1 = 2\text{kN}$, $F_2 = 2\sqrt{2}\text{kN}$, $F_3 = 1\text{kN}$, $F_4 = 2\sqrt{2}\text{kN}$.




$\vec{F}_1$
$\vec{F}_2$
$\vec{F}_3$
$\vec{F}_4$
$45^0$
$45^0$
1
$q=1$ kN/m
A
G
B
4
2
$Y_A$
$F_1$
$F_T$ kN
$F_B$
2
$Y_4$
0
0
$Y_2$
-2
-4
-6
$M$ kNm
0'
0'
1
1
2
3
$Z_A$
1
$F_a$ kN
0"
0"
$Z_2$
-1
$F_3$
$Z_4$
-2
$U_F=\frac{2\text{ kN}}{1\text{ cm}}$, $U_M=\frac{2\text{ kNm}}{1\text{ cm}}$

Računica (najviše na dve strane):

*Na primer:*

Jednačine ravnoteže

Računanje transverzalnih sila

Računanje napadnih momenta