

Zadatak 1.

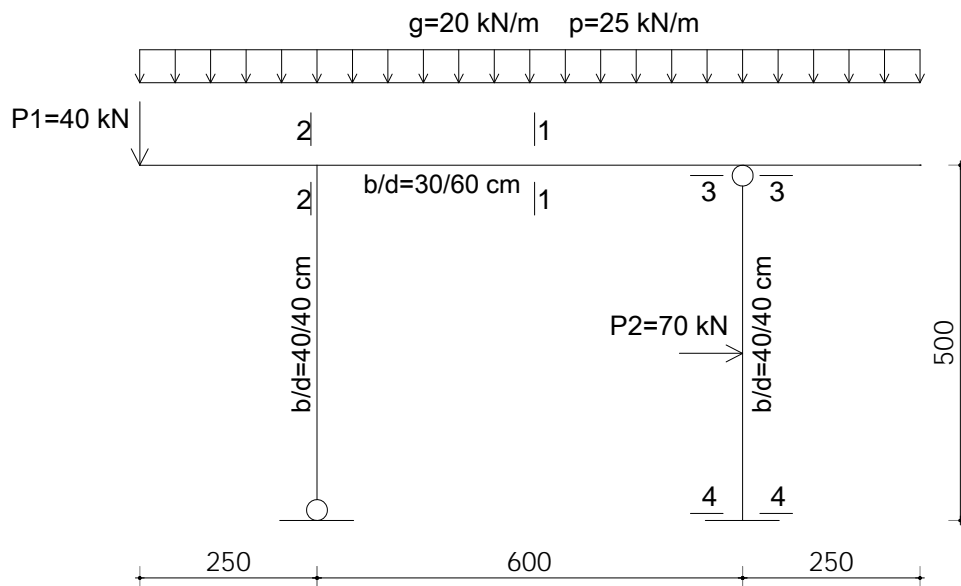
Za zadati ram sa opterećenjem (koncentrisane sile P1 i P2 su povremenog karaktera) na slici potrebno je uraditi sljedeće:

A) Dimenzionisati ram u naznačenim poprečnim presjecima. Dimenzionisanje na uticaje smicanja izvršiti u presjeku 2-2.

10 bodova

B) Nacrtati plan armature rama u podužnom i u naznačenim poprečnim presjecima.

7 bodova

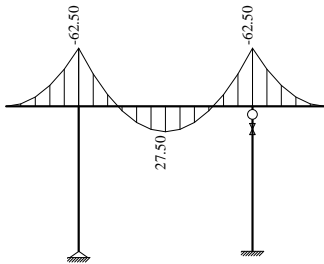


Kvalitet materijala: **MB35, RA400/500.**

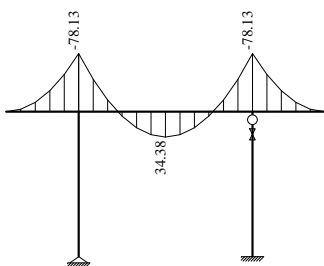
Predmetni nastavnik: Prof. dr Radmila Sindić Grebović, dipl. inž. građ.

Statički proračun

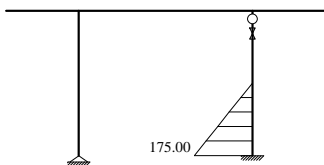
Opt. 1: stalno - jednakopodijeljeno



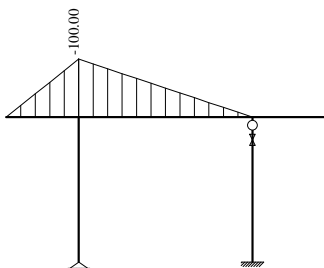
Utjecaji u gredi: max M3= 27.50 / min M3= -62.50 kNm
Opt. 2: povremeno - jednakopodijeljeno



Utjecaji u gredi: max M3= 34.38 / min M3= -78.13 kNm
Opt. 3: P1 - koncentrisana sila

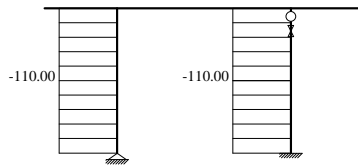


Utjecaji u gredi: max M3= 175.00 / min M3= -0.00 kNm
Opt. 4: P2 - koncentrisana sila

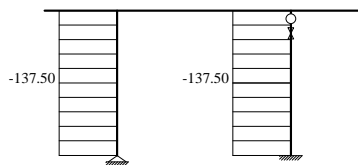


Utjecaji u gredi: max M3= 0.00 / min M3= -100.00 kNm

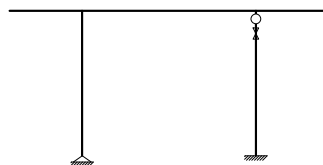
Opt. 1: stalno - jednakopodijeljeno



Utjecaji u gredi: max N1= 0.00 / min N1= -110.00 kN
Opt. 2: povremeno - jednakopodijeljeno



Utjecaji u gredi: max N1= 0.00 / min N1= -137.50 kN
Opt. 3: P1 - koncentrisana sila

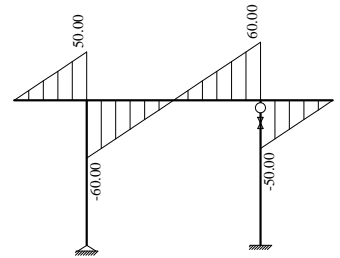


Utjecaji u gredi: max N1= 0.00 / min N1= 0.00 kN
Opt. 4: P2 - koncentrisana sila

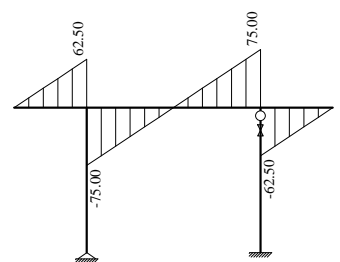


Utjecaji u gredi: max N1= 16.67 / min N1= -56.67 kN

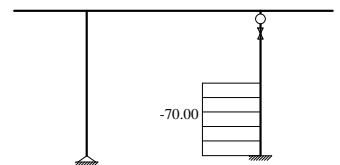
Opt. 1: stalno - jednakopodijeljeno



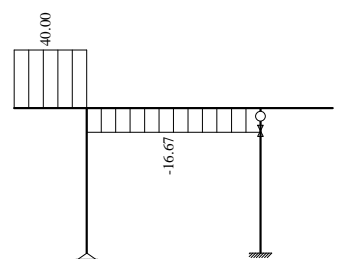
Utjecaji u gredi: max T2= 60.00 / min T2= -60.00 kN
Opt. 2: povremeno - jednakopodijeljeno



Utjecaji u gredi: max T2= 75.00 / min T2= -75.00 kN
Opt. 3: P1 - koncentrisana sila



Utjecaji u gredi: max T2= 0.00 / min T2= -70.00 kN
Opt. 4: P2 - koncentrisana sila



Utjecaji u gredi: max T2= 40.00 / min T2= -16.67 kN