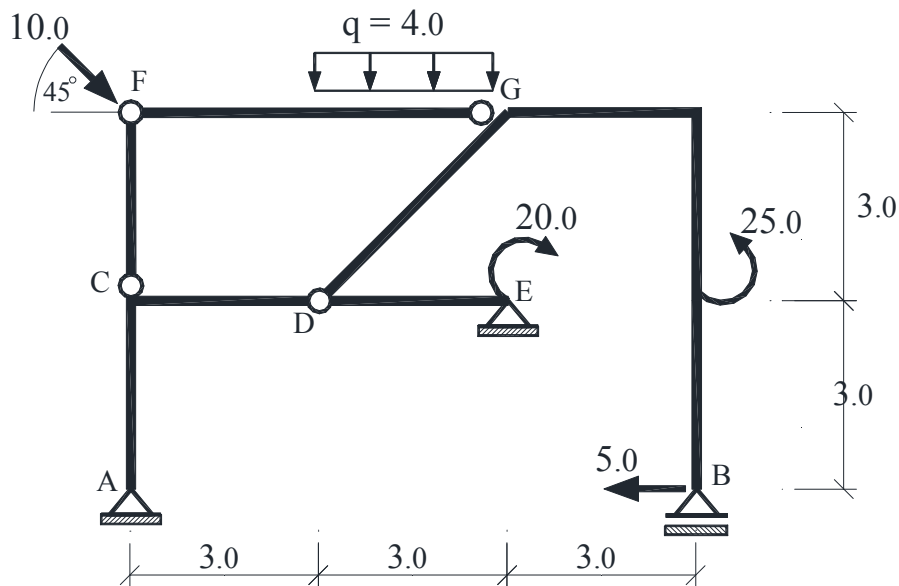


НАЦРТАТИ ДИЈАГРАМЕ СИЛА У ПРЕСЕКУ ЗА ПРИКАЗАНЕ НОСАЧЕ

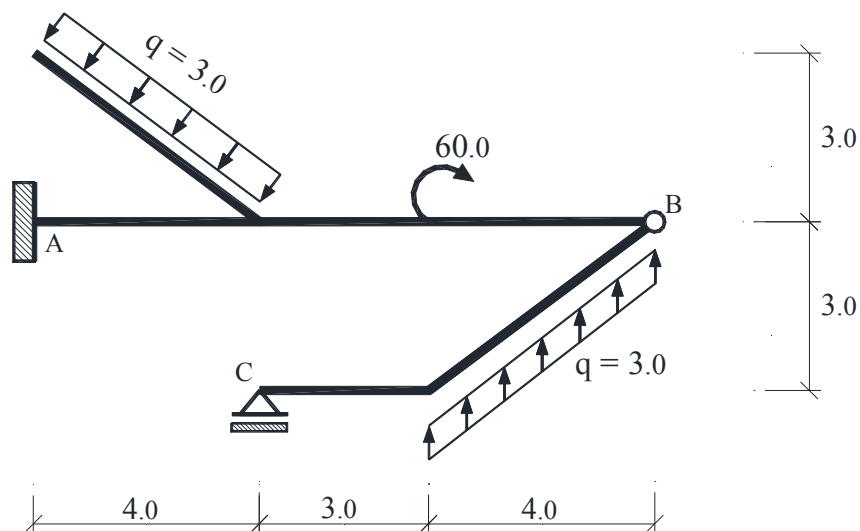
ГРУПА **A**

Време предвиђено за израду испита:
2 сата и 15 минута

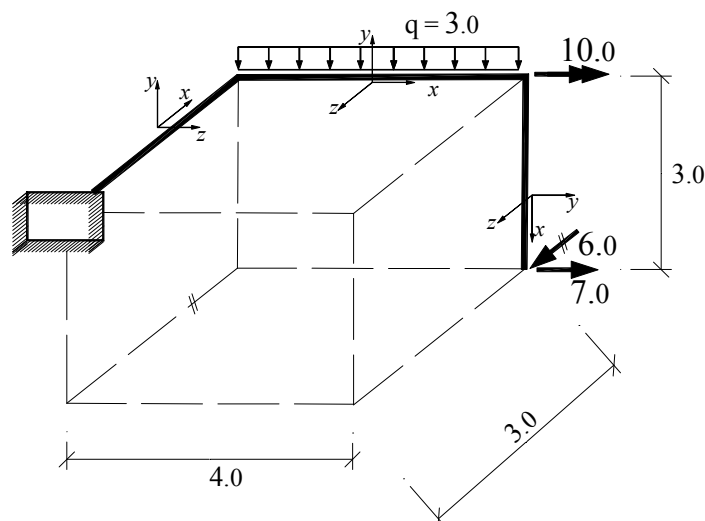
1.
(41%)



2.
(36%)

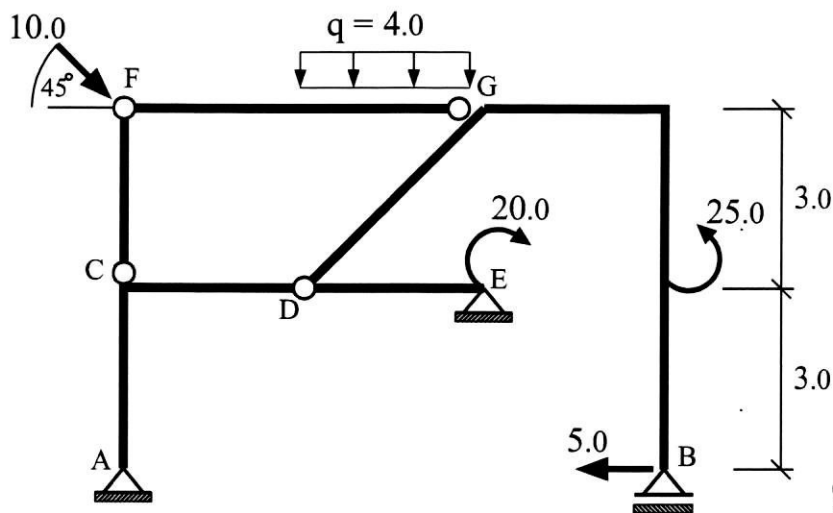


3.
(23%)



(kN, m)

НАПОМЕНА: Услов за полагање писменог дела испита је: » минимум 50% укупног броја поена,
» минимум 50% тачан дијаграм момената у 1. или 2 зад.



$$\sum X = 0 \Rightarrow X_G = 7.07$$

$$\sum M_F = 0 \Rightarrow Y_G = 9$$

$$\sum Y = 0 \Rightarrow S_{FC} = -10.07$$

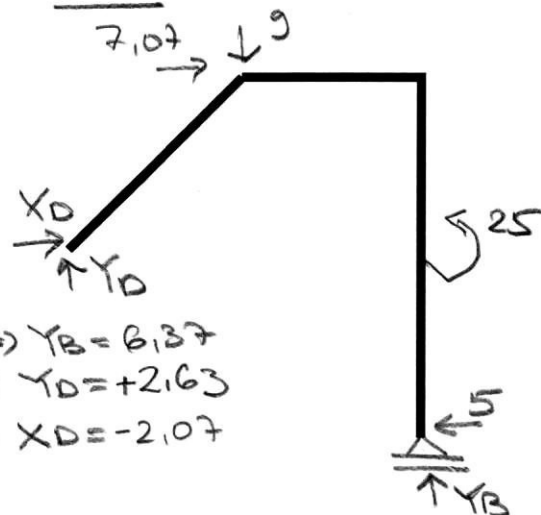
$$\sum M_D^{\Delta \text{своб}} = 0 \Rightarrow Y_E = 6.67$$

$$\sum Y = 0 \Rightarrow Y_A = 6.03$$

$$\sum M_D^{\text{нрзб}} = 0 \Rightarrow X_A = -4.04$$

$$\sum X = 0 \Rightarrow X_E = -1.97$$

D-B

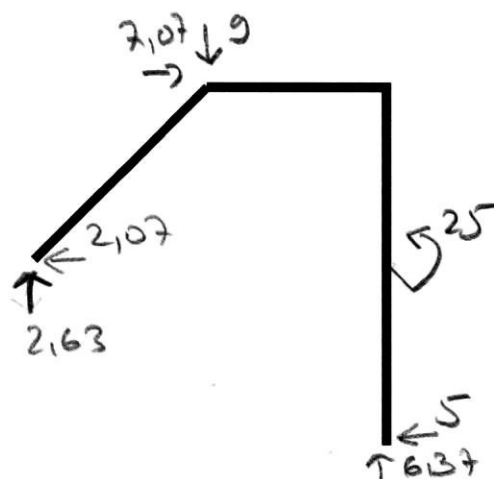
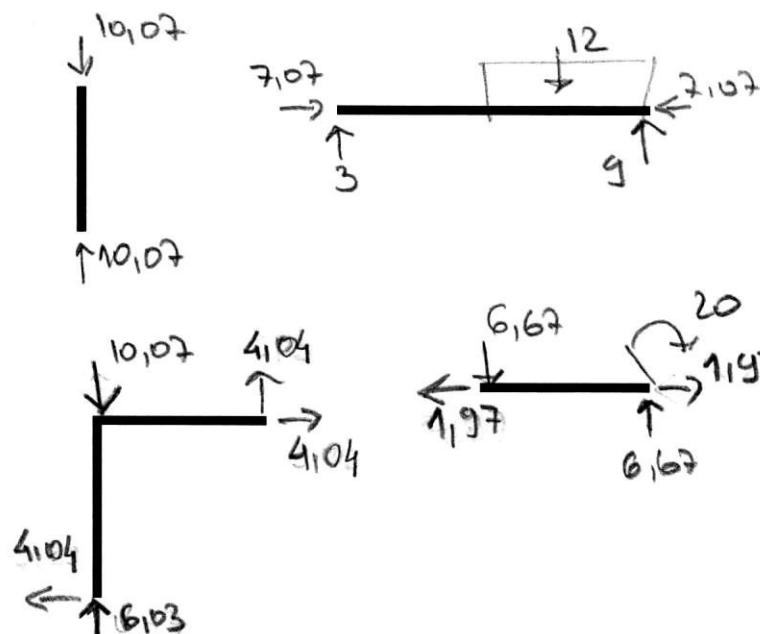
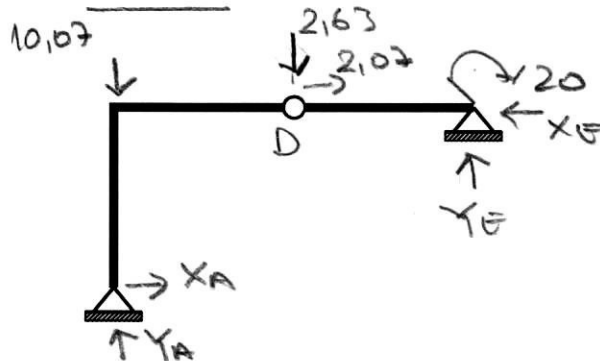


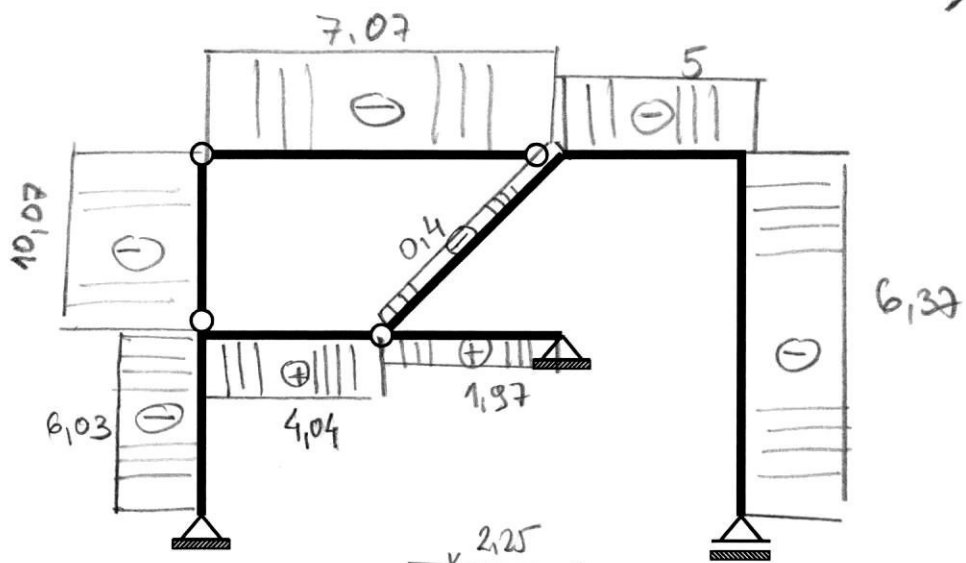
$$\sum M_D = 0 \Rightarrow Y_B = 6.37$$

$$\sum Y = 0 \Rightarrow Y_D = +2.63$$

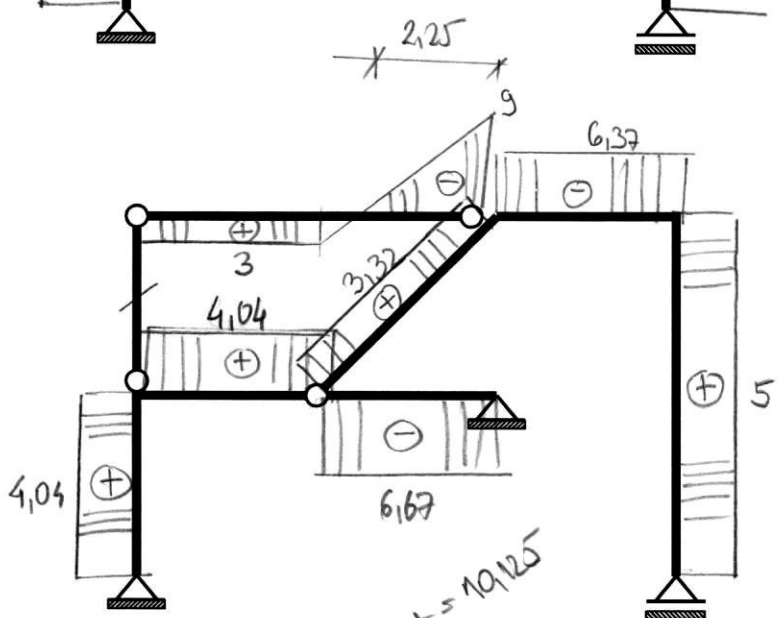
$$\sum X = 0 \Rightarrow X_D = -2.07$$

A-D-E

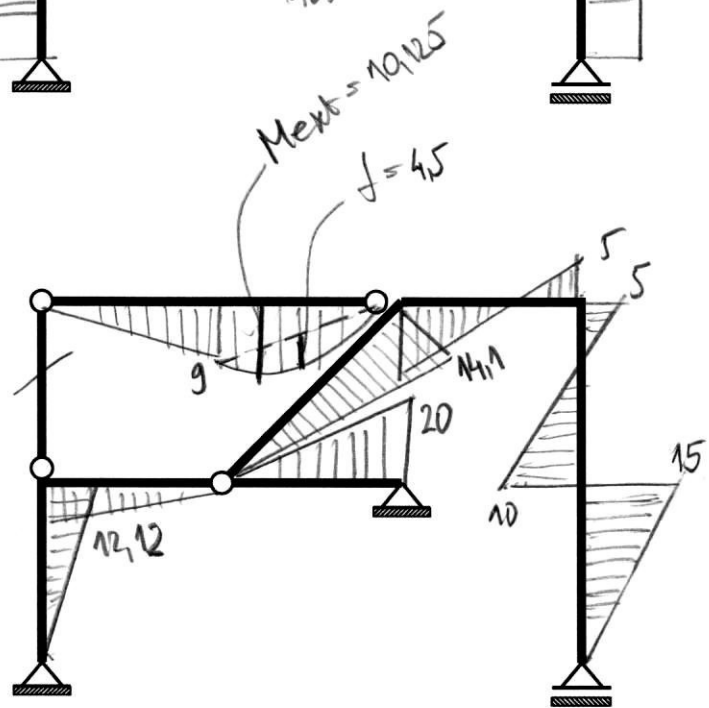




(N)

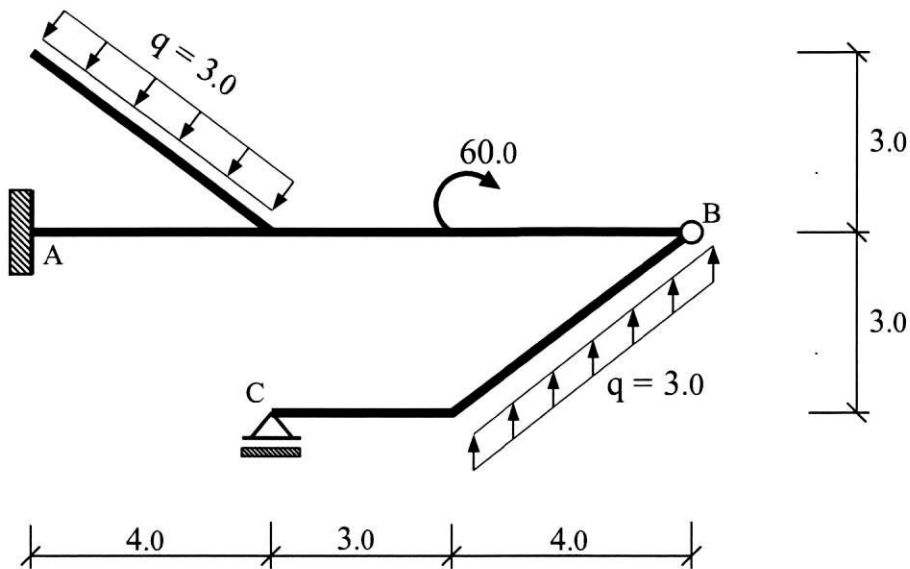


(T)

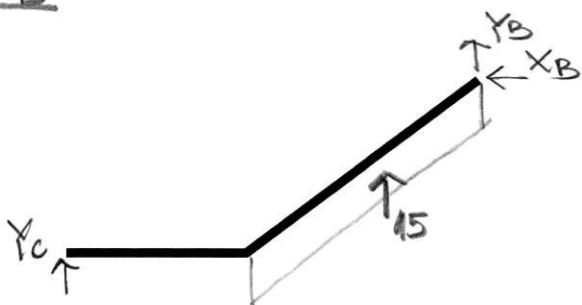


(M)

$M_{ext} = 19.125$
 $f = 4.5$

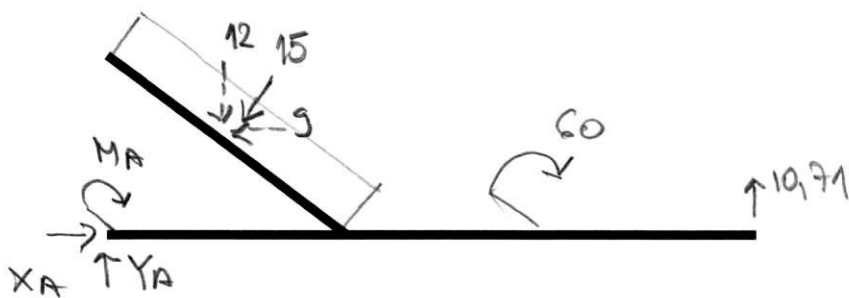


C-B

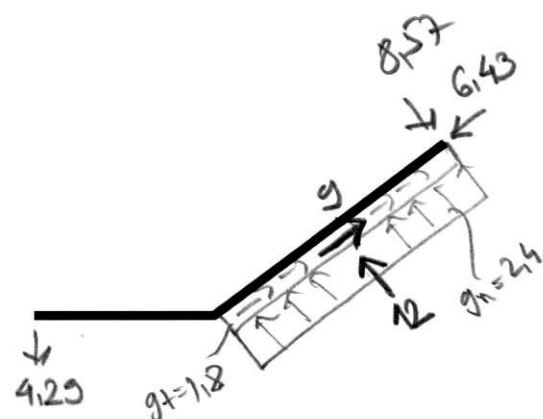
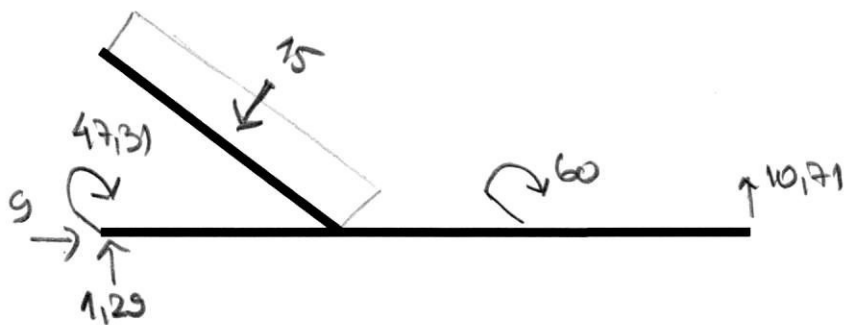


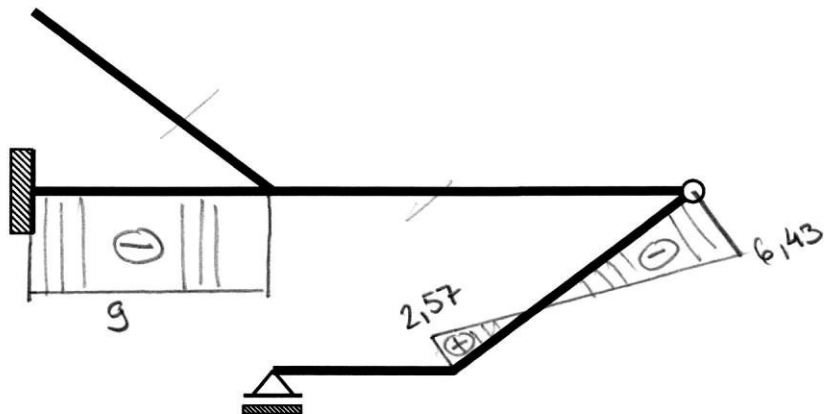
$$\begin{aligned}\sum M_B = 0 &\Rightarrow Y_c = -4.29 \\ \sum X = 0 &\Rightarrow X_B = 0 \\ \sum Y = 0 &\Rightarrow Y_B = -10.71\end{aligned}$$

A-B

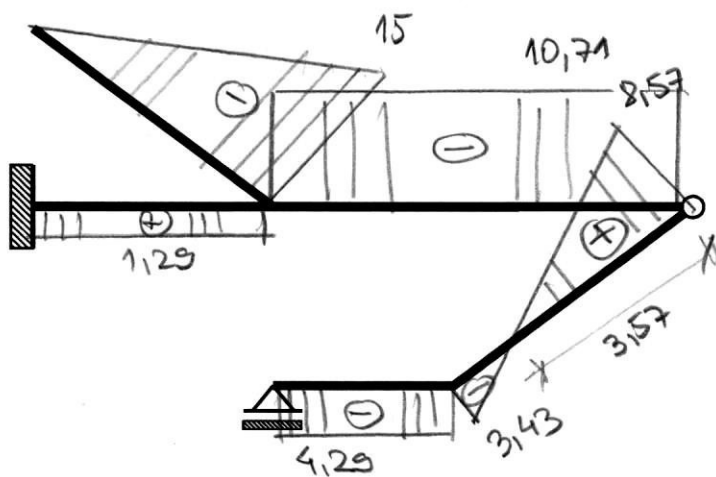


$$\begin{aligned}\sum M_A = 0 &: 10.71 \cdot 4 - 60 + 9 \cdot 1.5 - 12 \cdot 2 = 0 \\ -M_A = 0 &\Rightarrow M_A = 47.31 \\ \sum X = 0 &\Rightarrow X_A = 9 \\ \sum Y = 0 &\Rightarrow Y_A = 1.29\end{aligned}$$

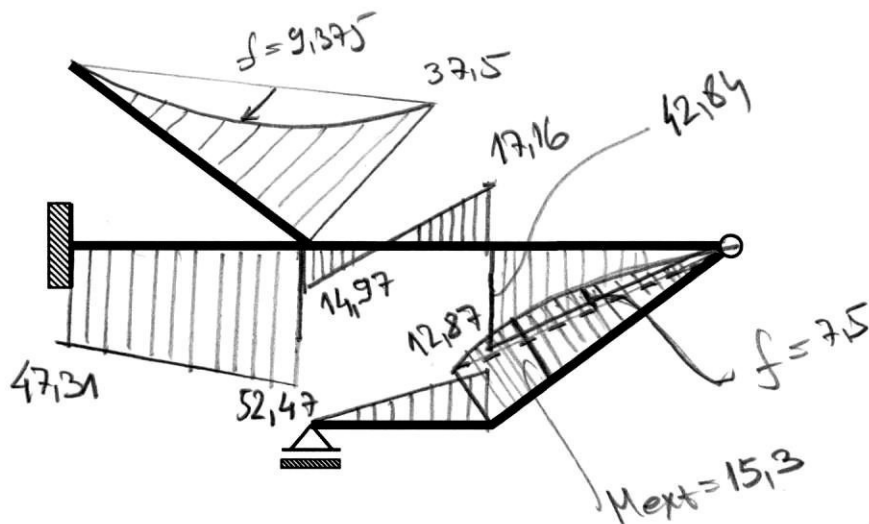




(N)



(T)



(M)

3.

