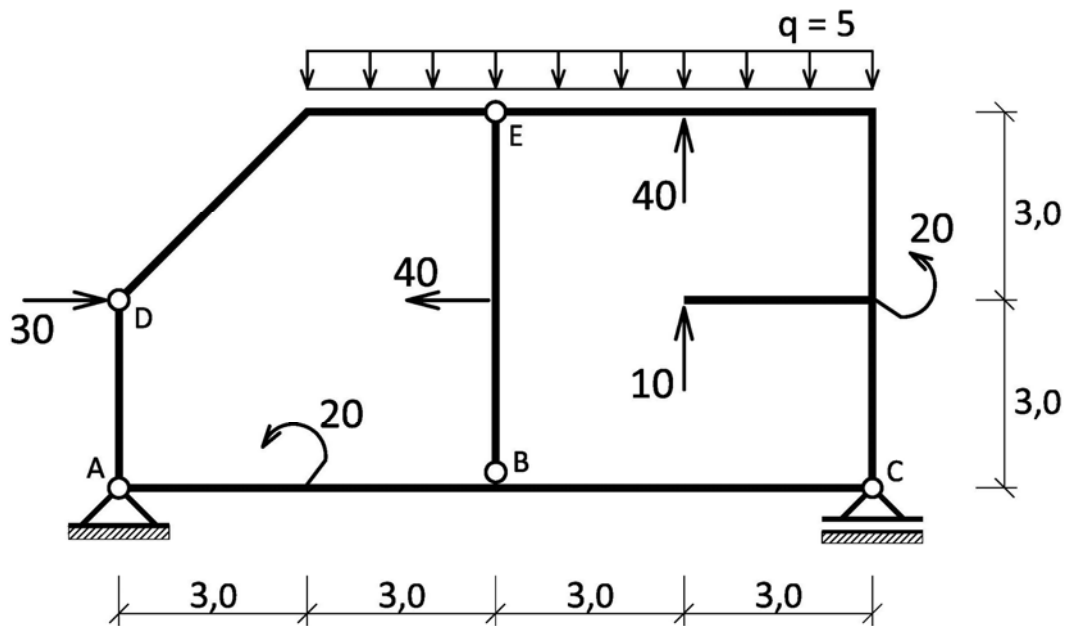


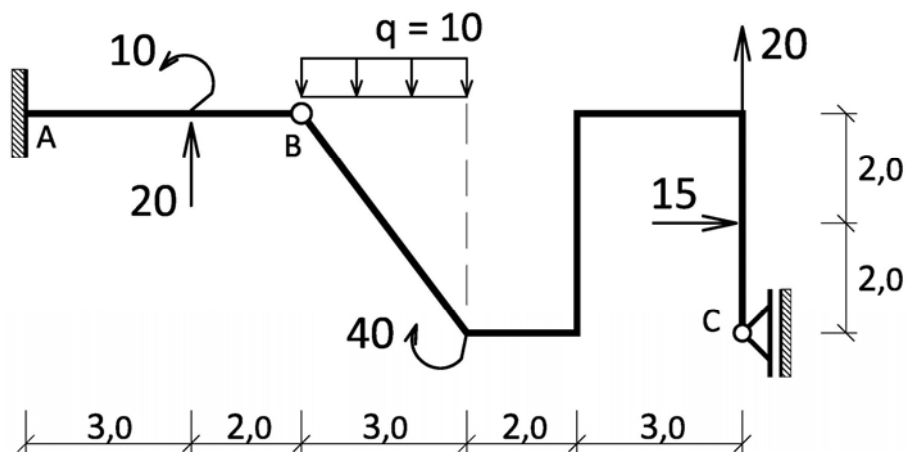
НАЦРТАТИ ДИЈАГРАМЕ СИЛА У ПРЕСЕКУ ЗА ПРИКАЗАНЕ НОСАЧЕ

ГРУПА **A**

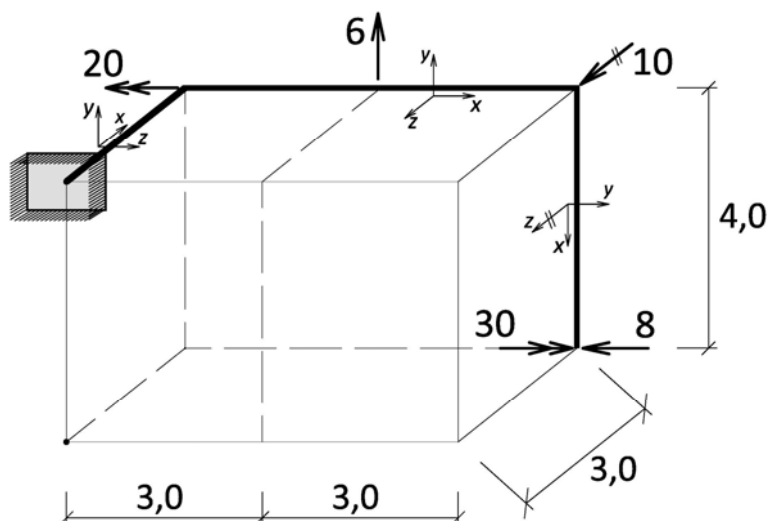
1.
(45%)



2.
(35%)



3.
(20%)

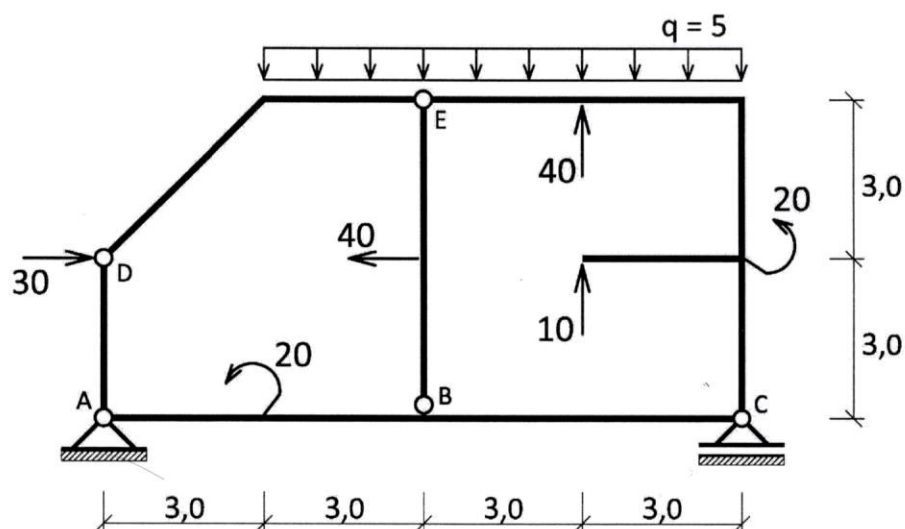
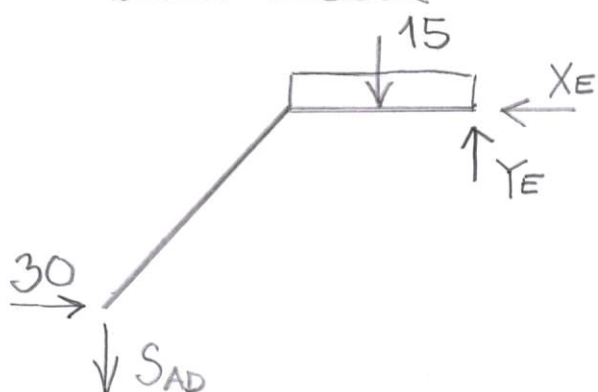


(kN, m)

Време предвиђено за израду испита: 2h 15min

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

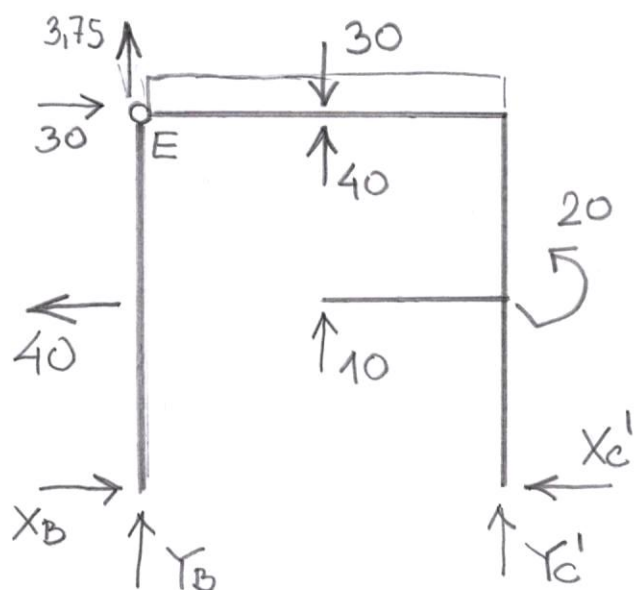
1.


 * $\Delta E O A-D-E$


$$\sum M_E = 0 \Rightarrow S_{AD} = -18,75$$

$$\sum F_x = 0 \Rightarrow X_E = 30,0$$

$$\sum F_y = 0 \Rightarrow Y_E = -3,75$$

 * $\Delta E O B-E-C$


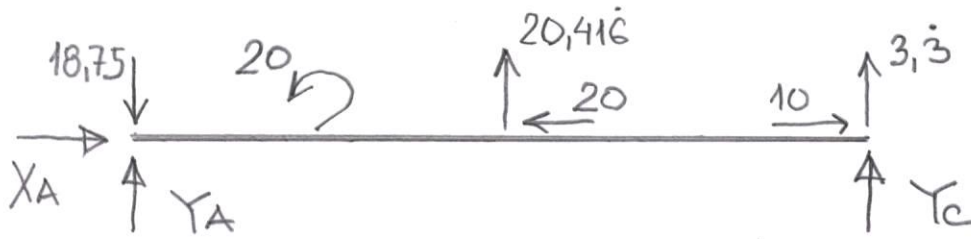
$$\sum M_B = 0 \Rightarrow Y'_C = -3,333$$

$$\sum F_y = 0 \Rightarrow Y_B = -20,416$$

$$\sum M_E^{\Delta O A} = 0 \Rightarrow X_B = 20,0$$

$$\sum F_x = 0 \Rightarrow X'_C = 10,0$$

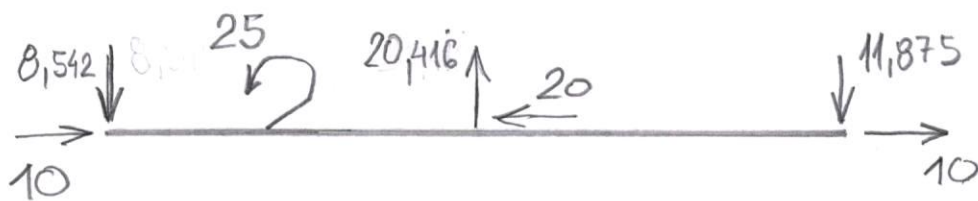
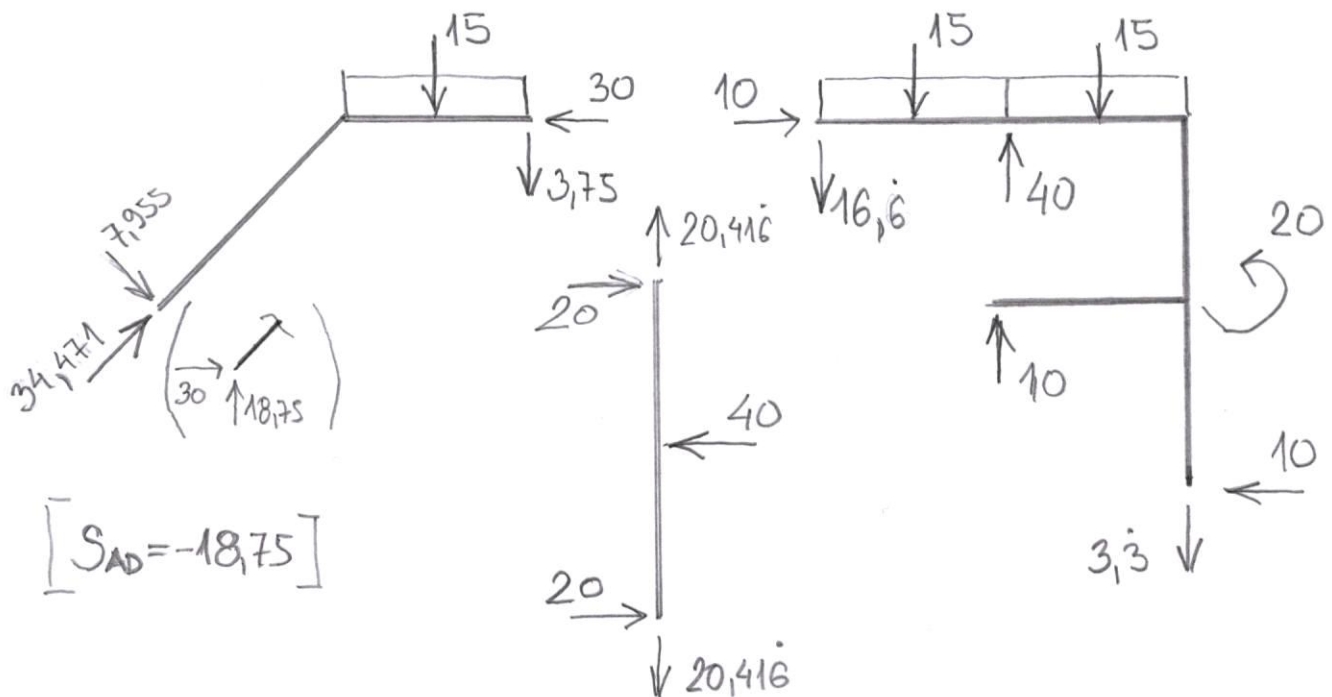
* $\Delta E O A-C$

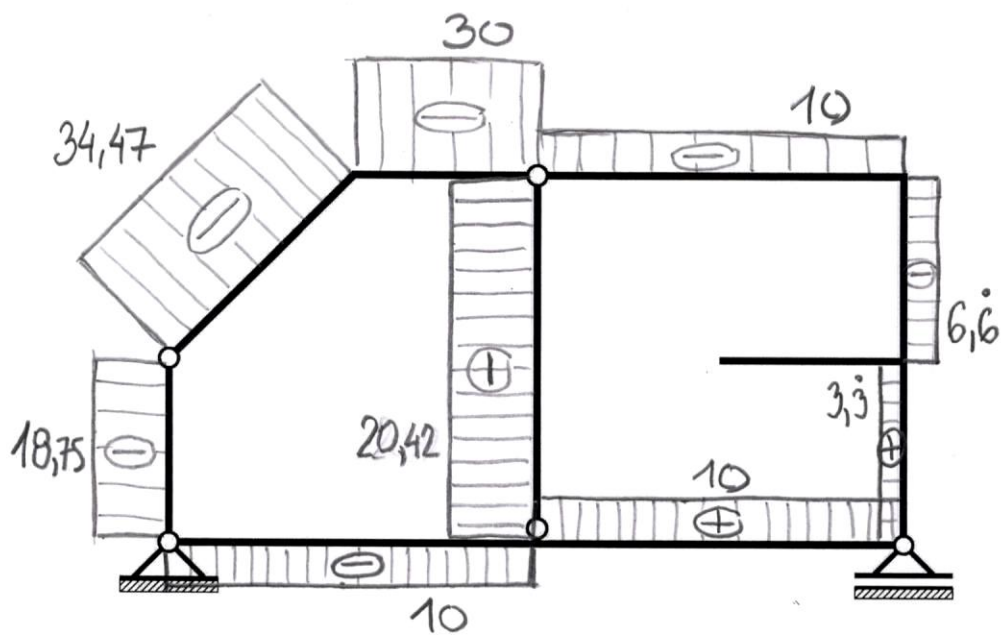


$$\Sigma F_x = 0 \Rightarrow \underline{X_A = 10,0}$$

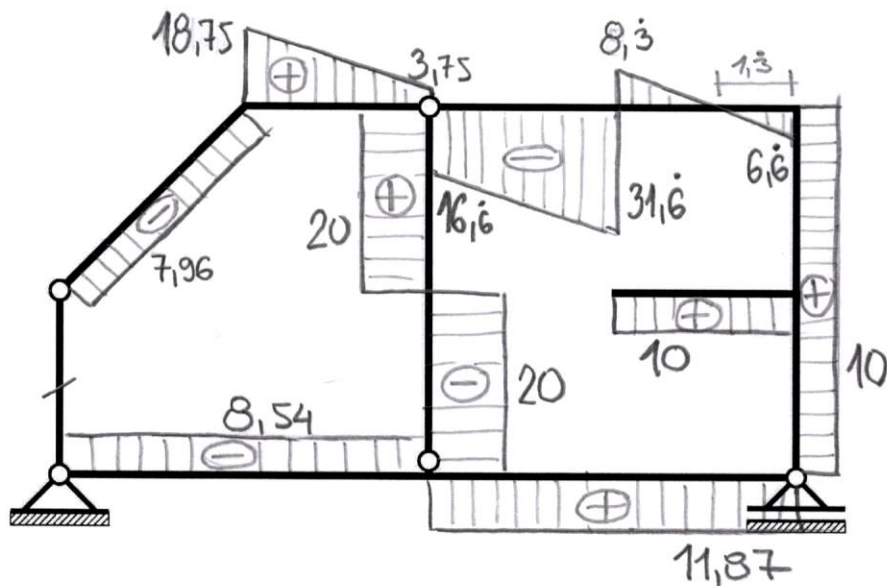
$$\Sigma M_A = 0 \Rightarrow \underline{Y_C = -15,208}$$

$$\Sigma F_y = 0 \Rightarrow \underline{Y_A = 10,208}$$

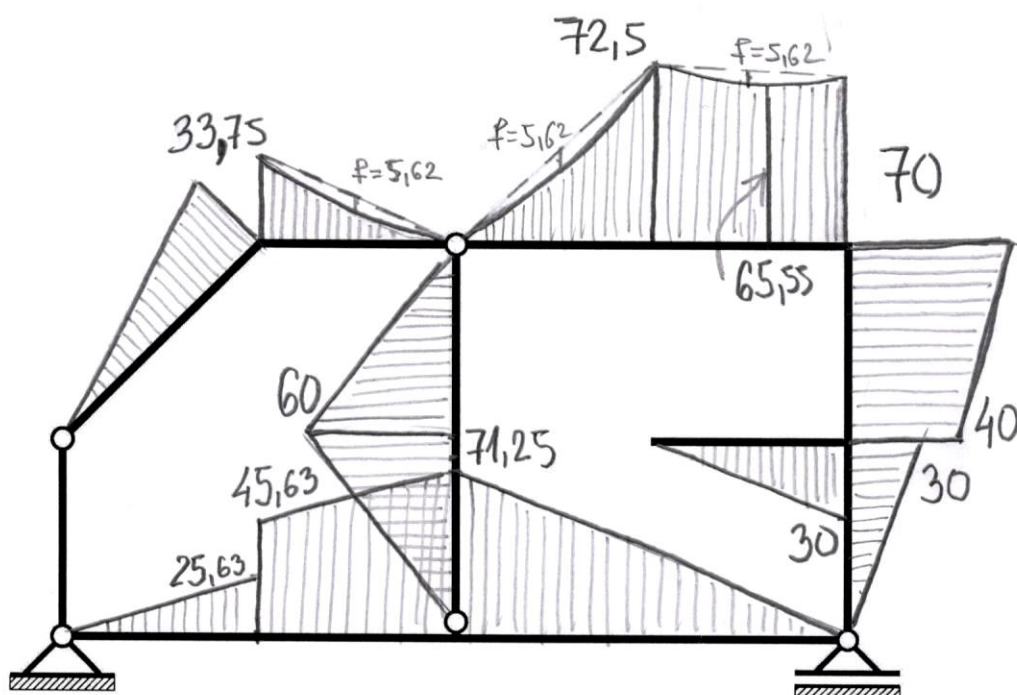




N

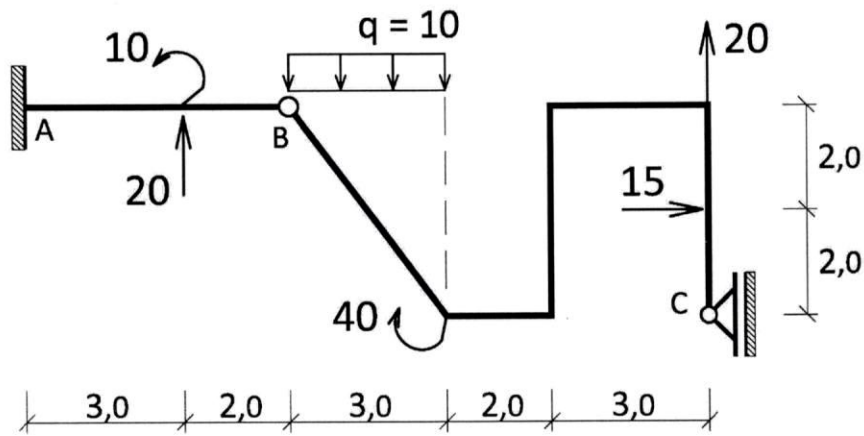


T

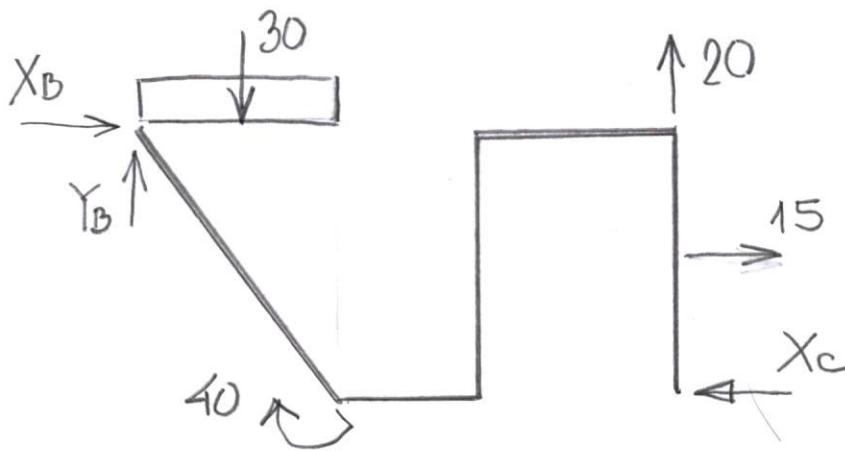


M

2.



* $\Delta E O B-C$

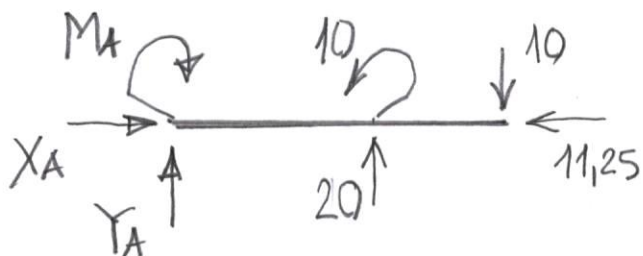


$$\sum M_A = 0 \Rightarrow \underline{X_C = 26,25}$$

$$\sum F_x = 0 \Rightarrow \underline{X_B = 11,25}$$

$$\sum F_y = 0 \Rightarrow \underline{Y_B = 10,0}$$

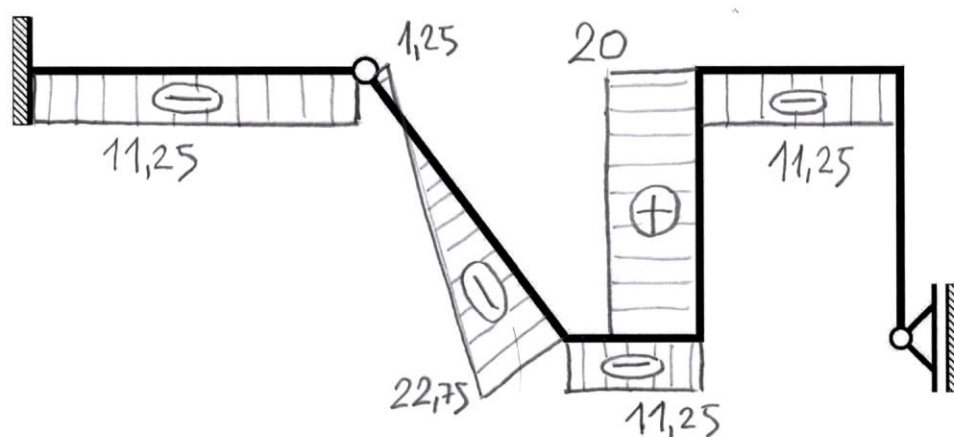
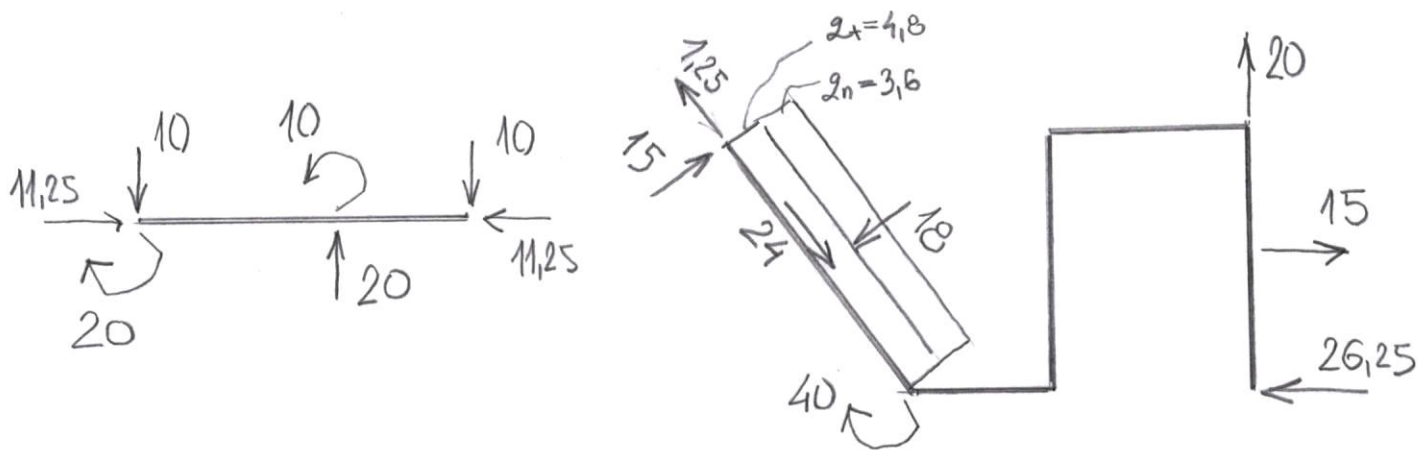
* $\Delta E O A-B$



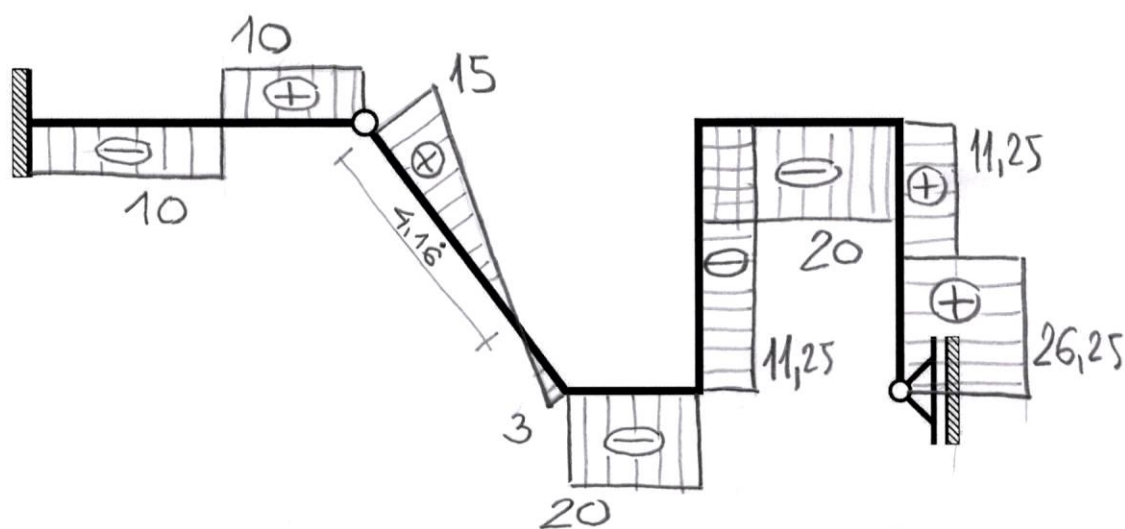
$$\sum F_x = 0 \Rightarrow \underline{X_A = 11,25}$$

$$\sum F_y = 0 \Rightarrow \underline{Y_A = -10,0}$$

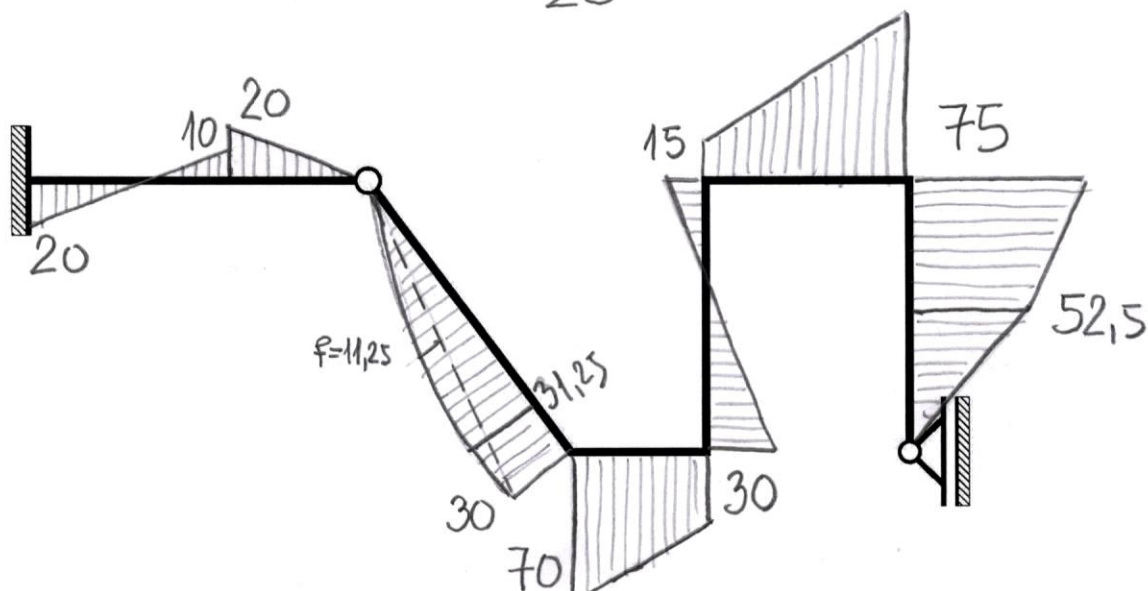
$$\sum M_A = 0 \Rightarrow \underline{M_A = 20,0}$$



N



T



M

3.

