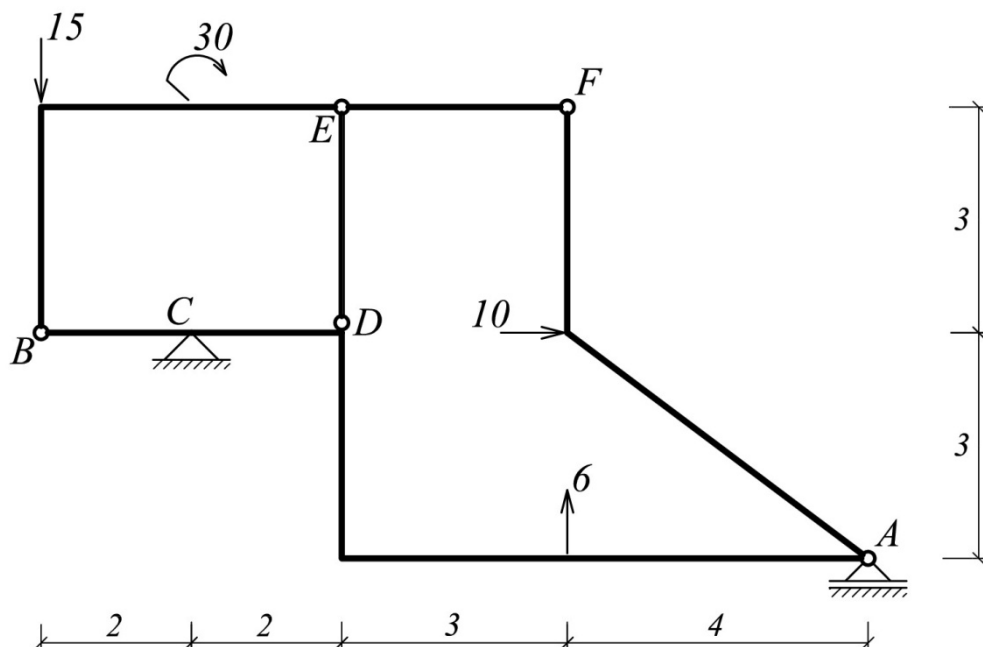


НАЦРТАТИ ДИЈАГРАМЕ СИЛА У ПРЕСЕКУ ЗА ПРИКАЗАНЕ НОСАЧЕ

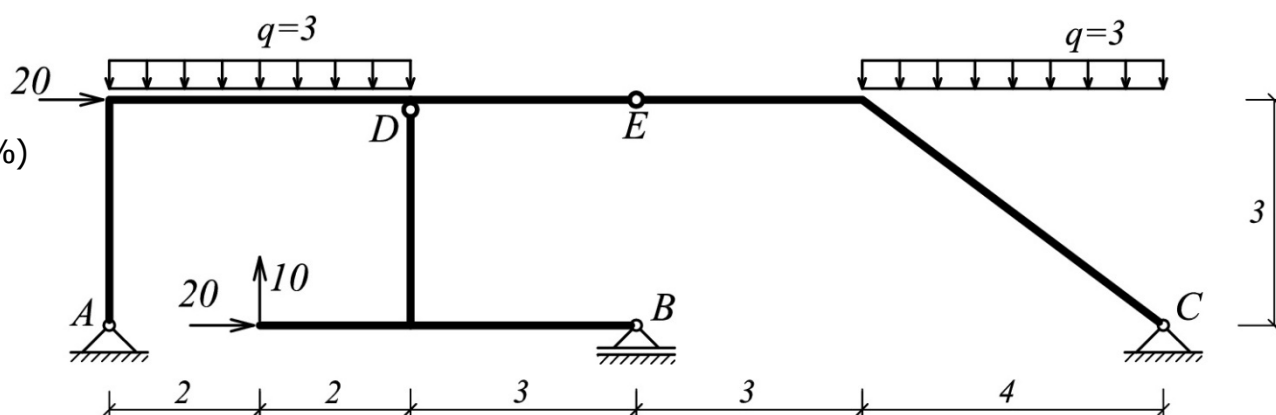
ГРУПА **A**

Време предвиђено за
израду испита:
2 сата и 15 минута

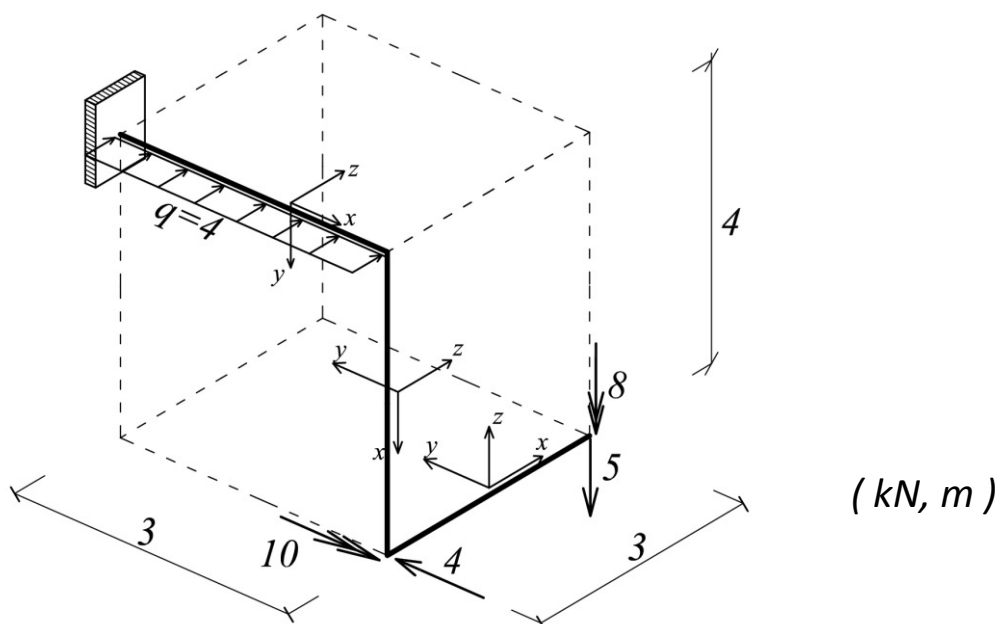
1.
(39%)



2.
(38%)

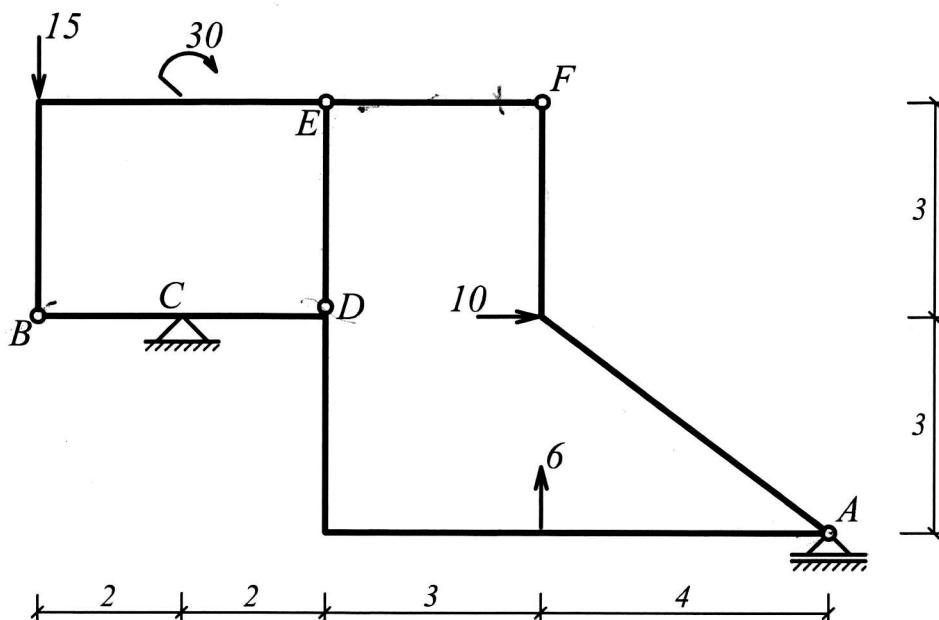


3.
(23%)

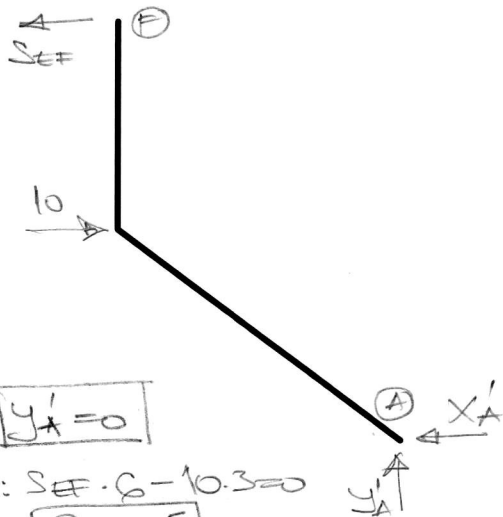


(kN, m)

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



* Δeo E-F-A:



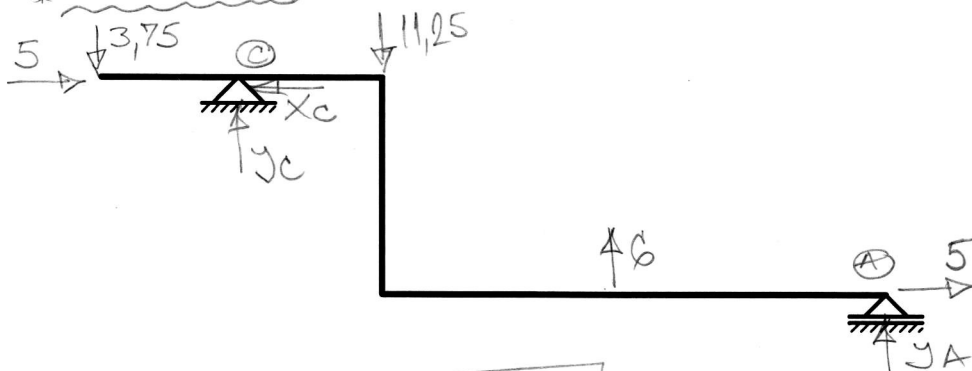
$$\sum F_y = 0: \boxed{Y'_A = 0}$$

$$\sum M_A = 0: S_{EF} \cdot 6 - 10 \cdot 3 = 0$$

$$\boxed{S_{EF} = 5}$$

$$\sum F_x = 0: \boxed{X'_A = 5}$$

* Δeo C-A:



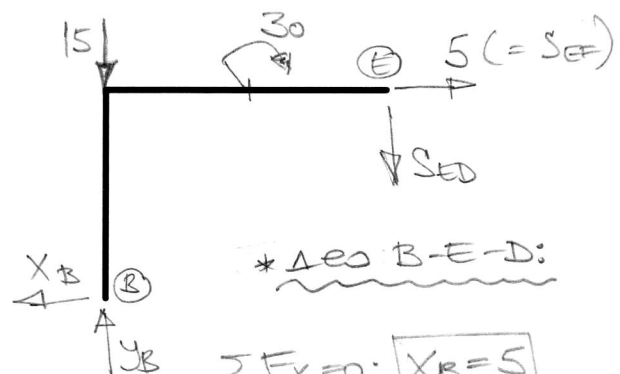
$$\sum F_x = 0: \boxed{X_C = 10}$$

$$\sum M_C = 0: Y_A \cdot 9 + 3,75 \cdot 2 - 11,25 \cdot 2 + 6 \cdot 5 + 5 \cdot 3 = 0$$

$$\boxed{Y_A = -3,33}$$

$$\sum F_y = 0: \boxed{Y_C = 12,33}$$

kontroll: $\sum M_A = 5 \cdot 3 - 3,75 \cdot 11 + 12,33 \cdot 9 - 10 \cdot 3 - 11,25 \cdot 7 + 6 \cdot 4 = 0$



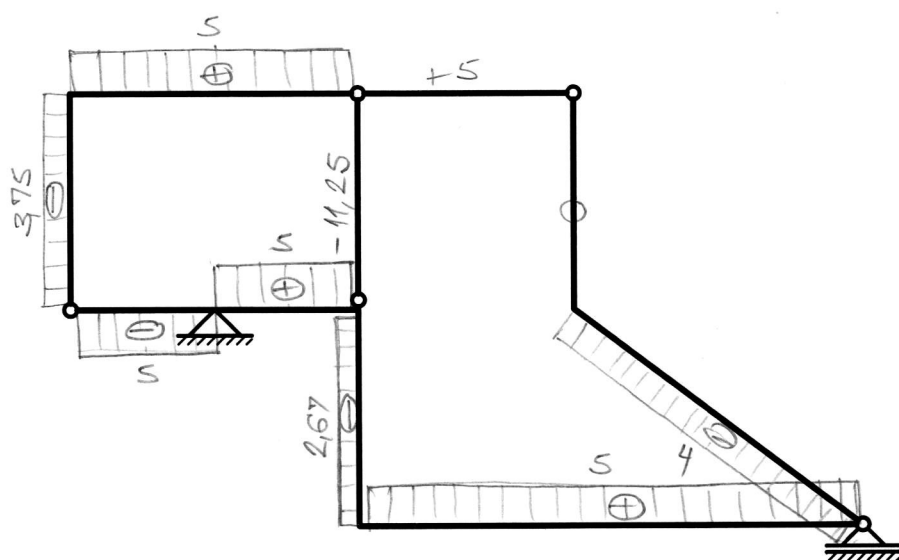
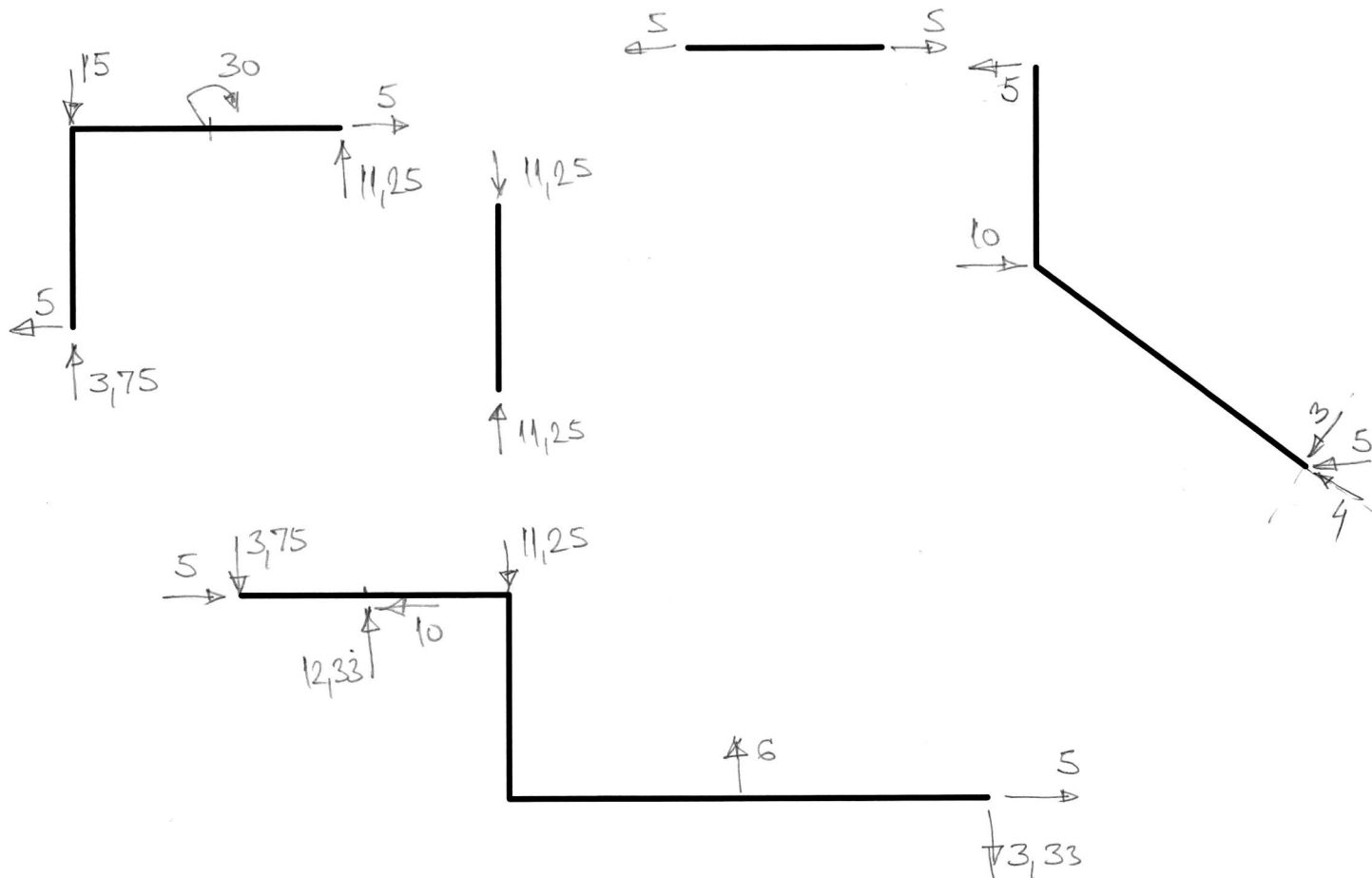
* Δeo B-E-D:

$$\sum F_x = 0: \boxed{X_B = 5}$$

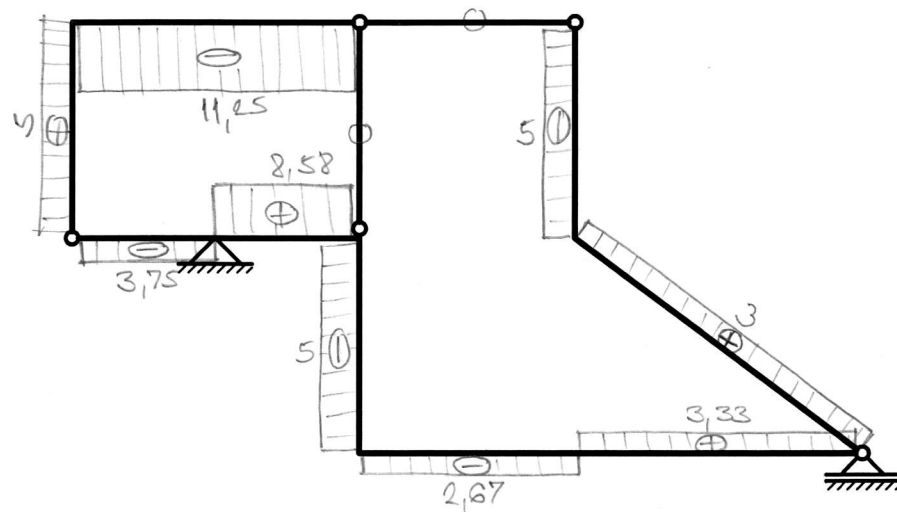
$$\sum M_A = 0: S_{ED} \cdot 4 + 5 \cdot 3 + 30 = 0$$

$$\boxed{S_{ED} = -11,25}$$

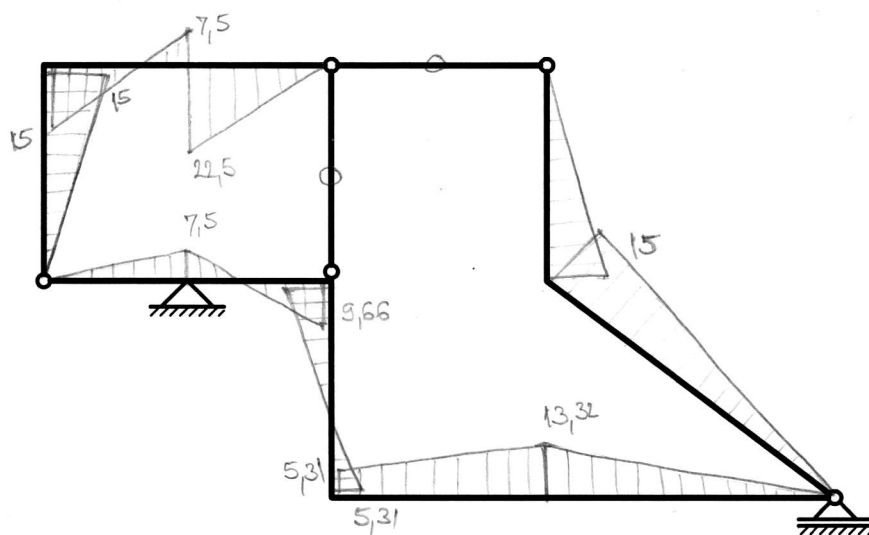
$$\sum F_y = 0: \boxed{Y_B = 3,75}$$



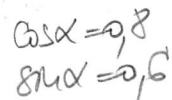
(N)

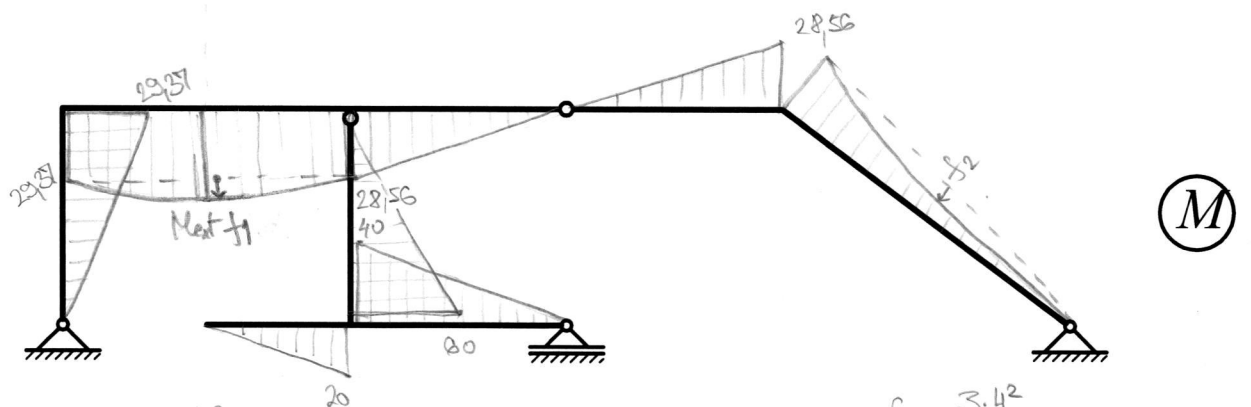
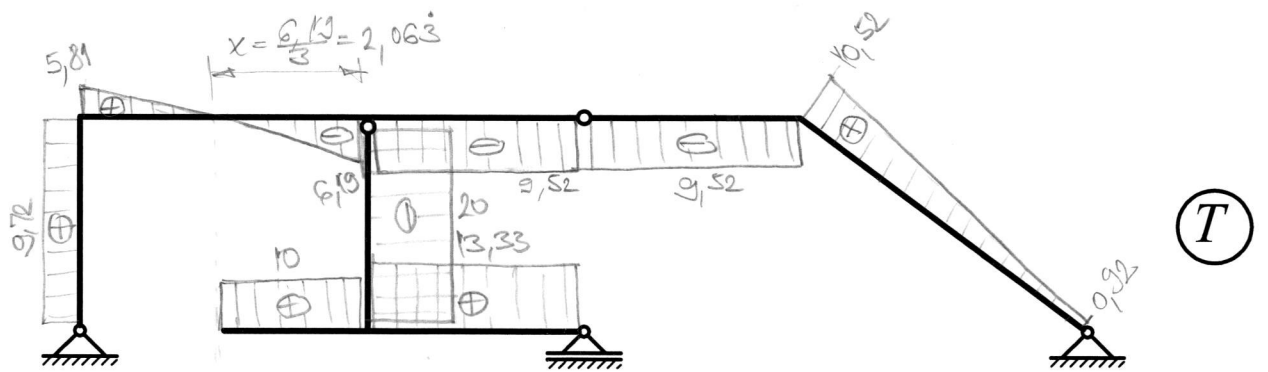
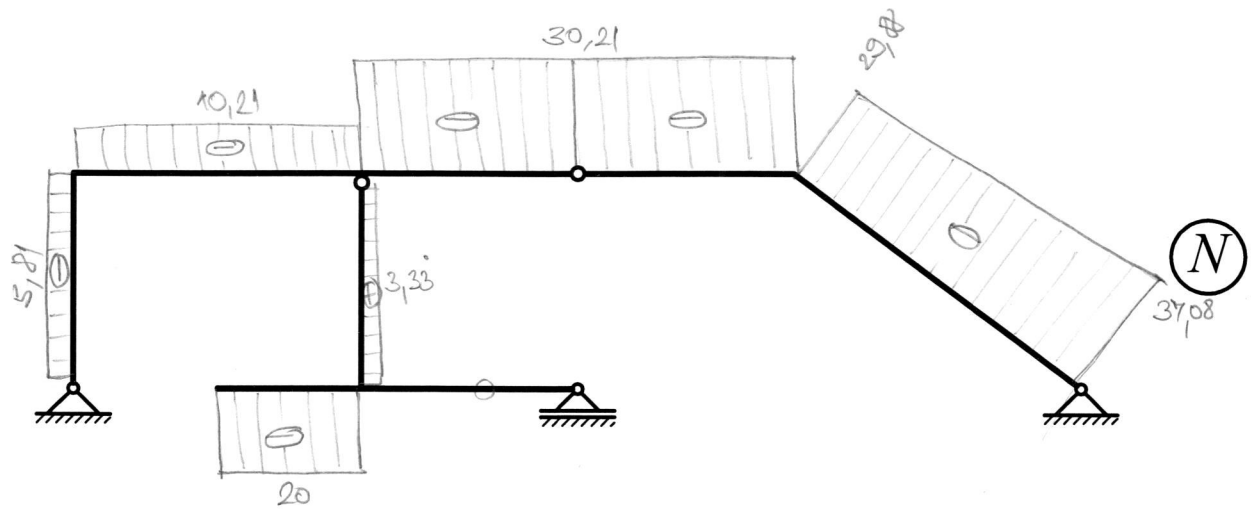


(T)



(M)



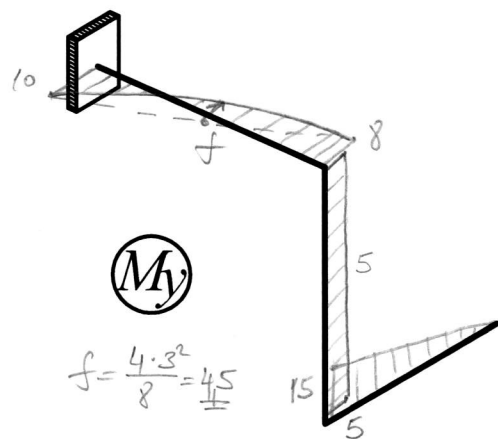
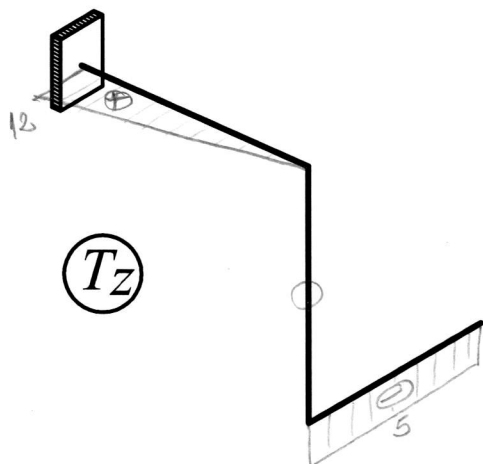
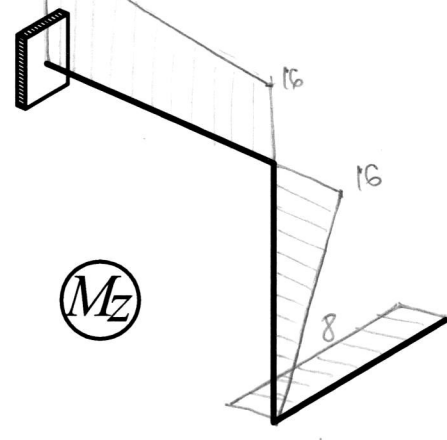
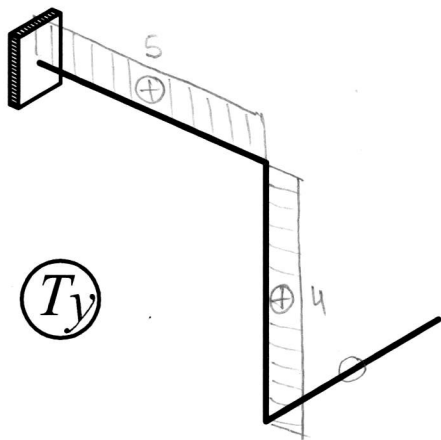
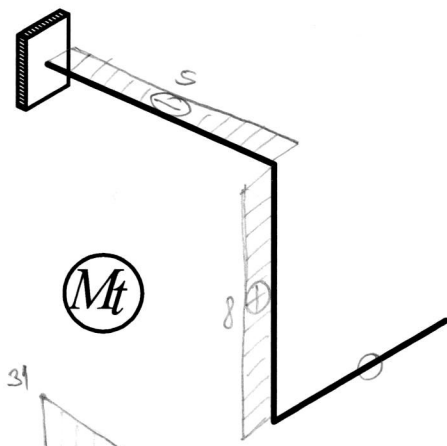
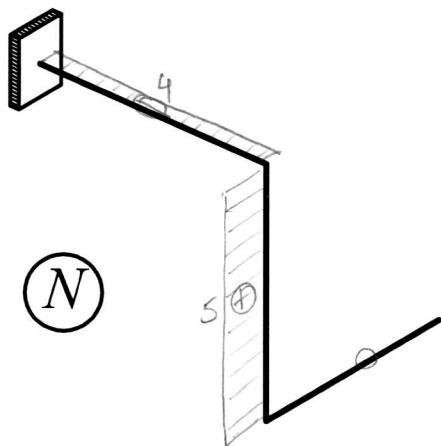
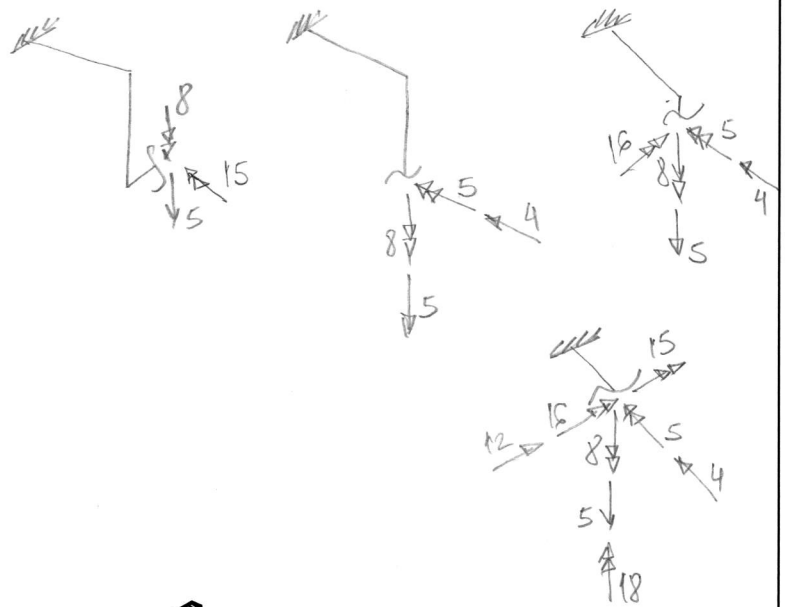
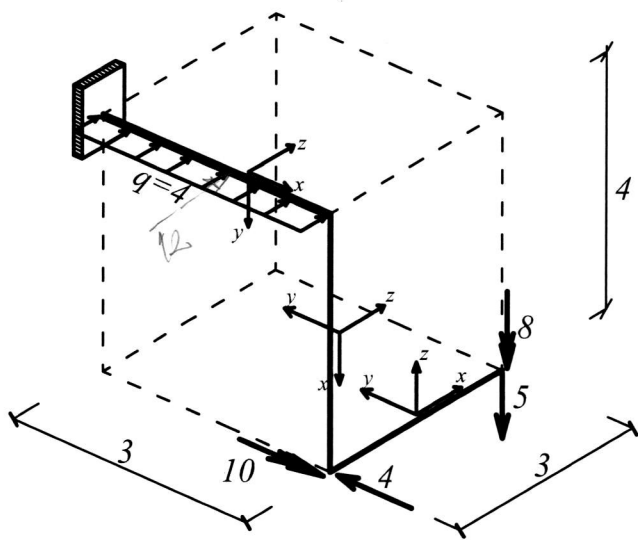


$$f_1 = \frac{3 \cdot 4^2}{8} = 6$$



$$f_2 = \frac{3 \cdot 4^2}{8} = 6$$

$$M_{ext} = 28,56 + \frac{2,063 \cdot 6,19}{2} = 34,94 \text{ kNm}$$



$$f = \frac{4 \cdot 3^2}{8} = 4.5$$