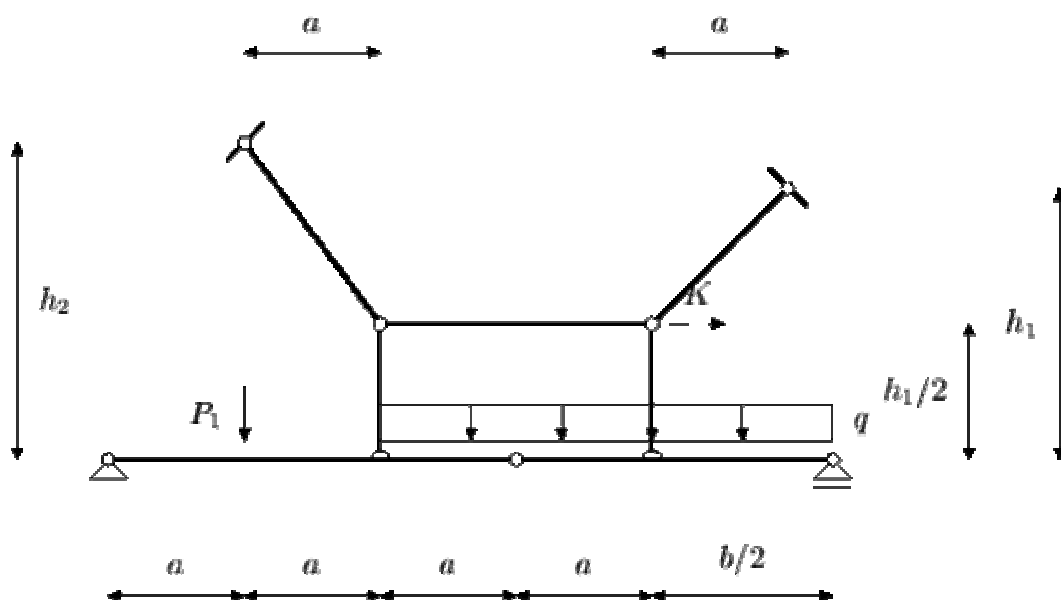
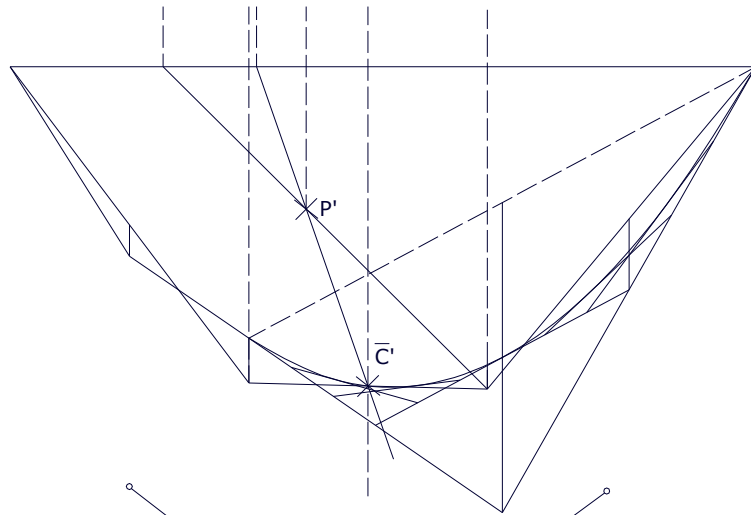
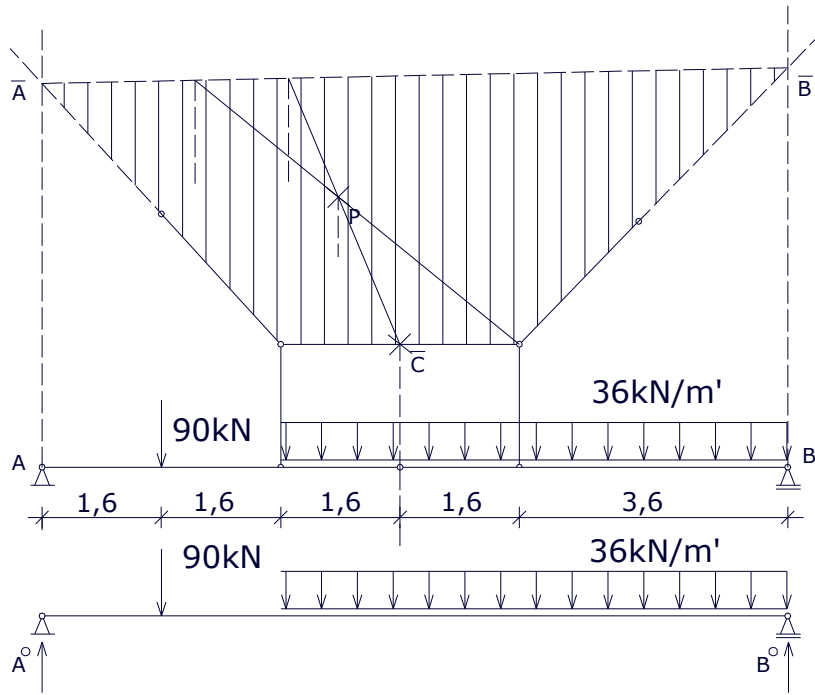


ZADATAK 3

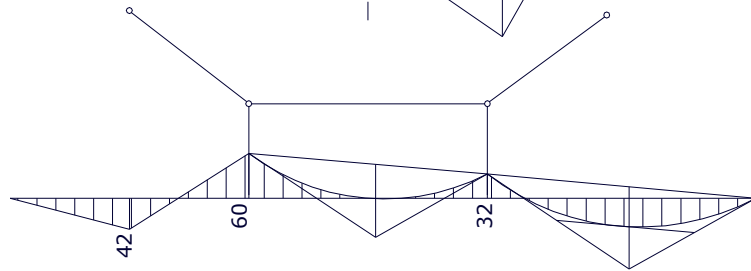
ZA OBJEŠEN NOSAČ GRAFOANALITIČKIM POSTUPKOM ODREDITI M, T, N DIJAGRAME ZA ZADANO OPTEREĆENJE



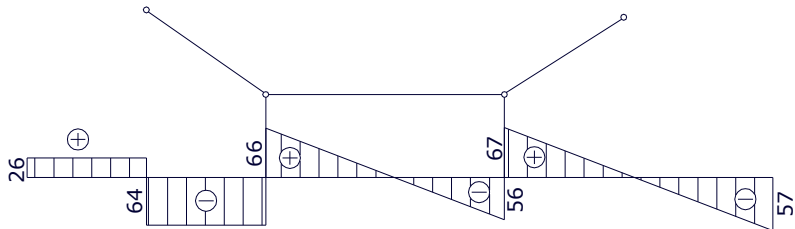
Student	Zadatak	TO	LG	PN	a	b	c	h_1	h_2	F_1	F_2	q
Vedran Slunjski	3	A	G	G_A	1.6	7.2	2.4	3.3	3.4	90	85	36



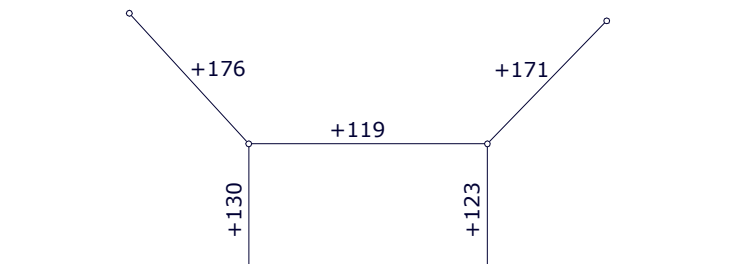
M
MJ
1cm=100kNm



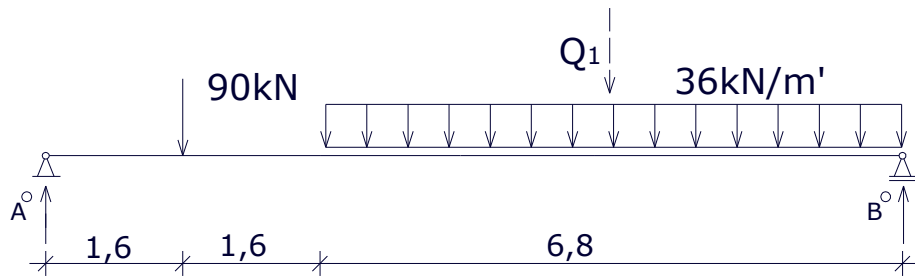
T
MJ
1cm=100kNm



N
MJ
1cm=100kNm



PROSTA GREDA



REAKCIJE:

$$\sum M_A = 0 \Rightarrow -Q_1 6,6 - P_1 1,6 + B^o 10 = 0 \Rightarrow B = \frac{1}{10} (90 \cdot 1,6 + 6,6 \cdot 244,4)$$

$$\mathbf{B^o = 175,97 \text{ kN}}$$

$$\sum M_B = 0 \Rightarrow -A^o 10 + Q_1 3,4 + P_1 8,4 = 0 \Rightarrow A = \frac{1}{10} (90 \cdot 8,4 + 244,8 \cdot 3,4)$$

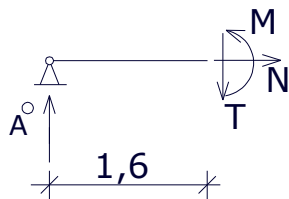
$$\mathbf{A^o = 158,83 \text{ kN}}$$

$$\sum F_x = 0 \Rightarrow \mathbf{A^H = 0 \text{ kN}}$$

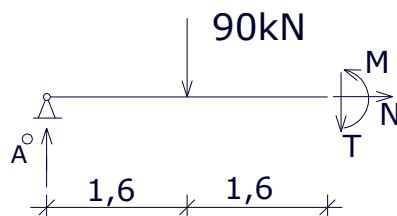
Kontrola:

$$\sum F_y = 0 \Rightarrow A^o - Q_1 + B^o - P_1 = 0 \Rightarrow 158,83 - 244,8 - 90 + 175,97 = 0$$
$$\mathbf{0 = 0}$$

MOMENTI U KARAKTERISTIČNIM TOČKAMA



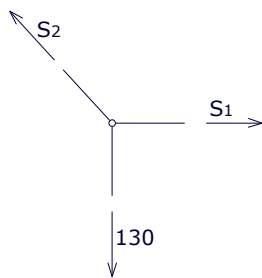
$$M = A^o 1,6 = 254,13 \text{ kNm}$$



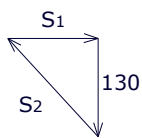
$$M = A^o 3,2 - P_1 1,6 = 364,26 \text{ kNm}$$

UZDUŽNE SILE IZ RAVNOTEŽE ČVOROVA

ČVOR 1



PLAN SILA MJ 1cm=100kN

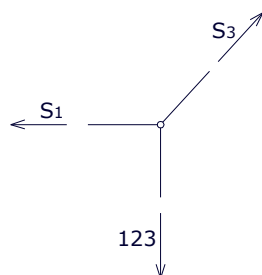


OČITANO:

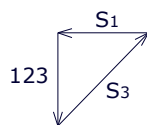
$$S_1 = 119 \text{ kN (vlak)}$$

$$S_2 = 176 \text{ kN (vlak)}$$

ČVOR 2



PLAN SILA MJ 1cm=100kN



OČITANO:

$$S_1 = 119 \text{ kN (vlak)}$$

$$S_3 = 171 \text{ kN (vlak)}$$