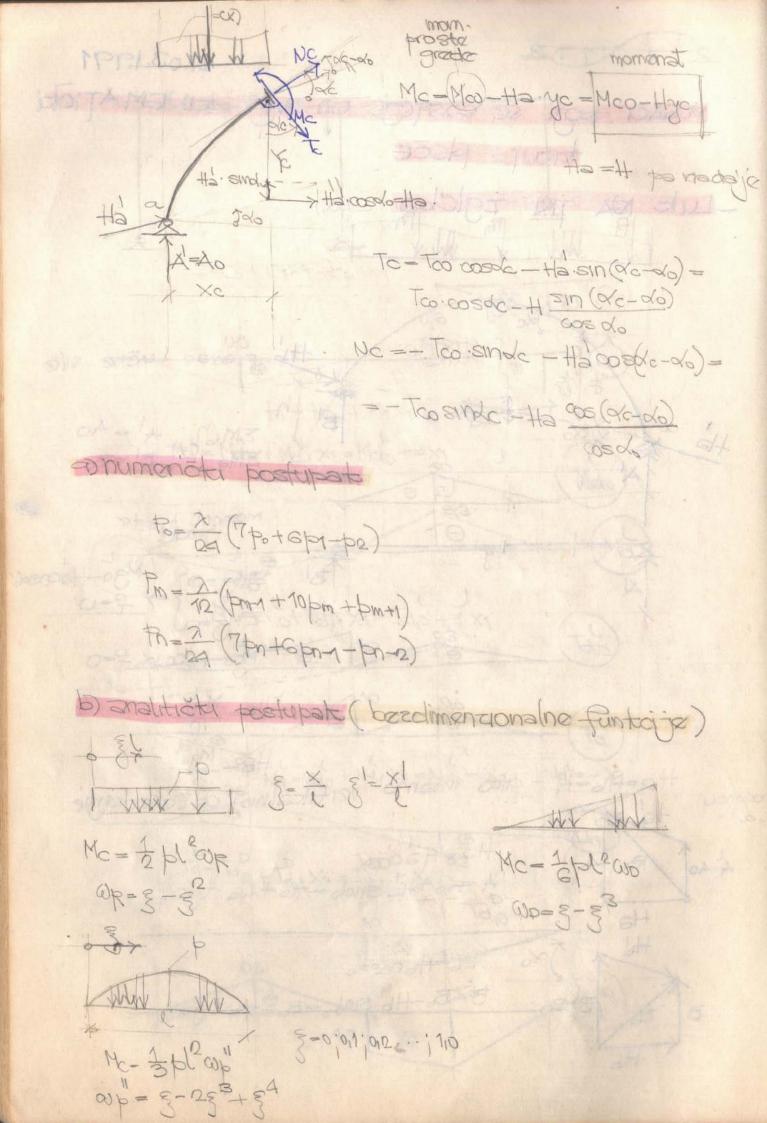
СТАТИКА КОНСТРУКЦИЈА 1

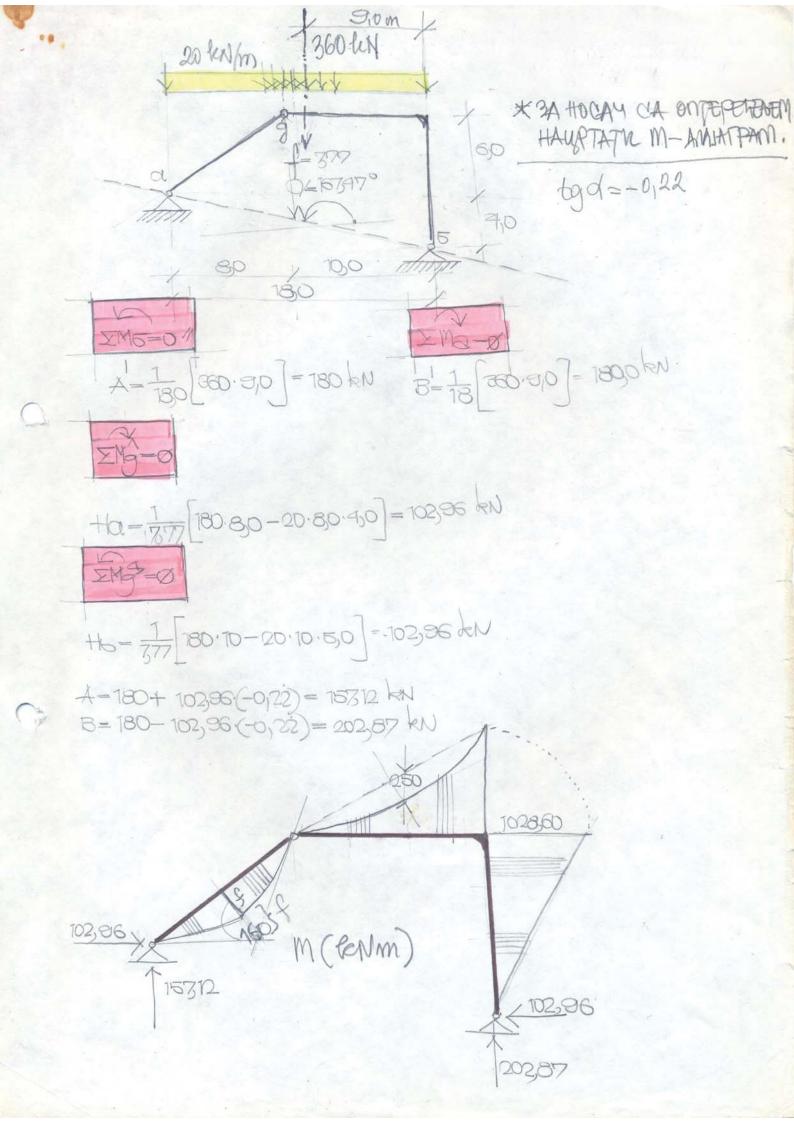
Модул: Конструкције

- материјал за вежбе -

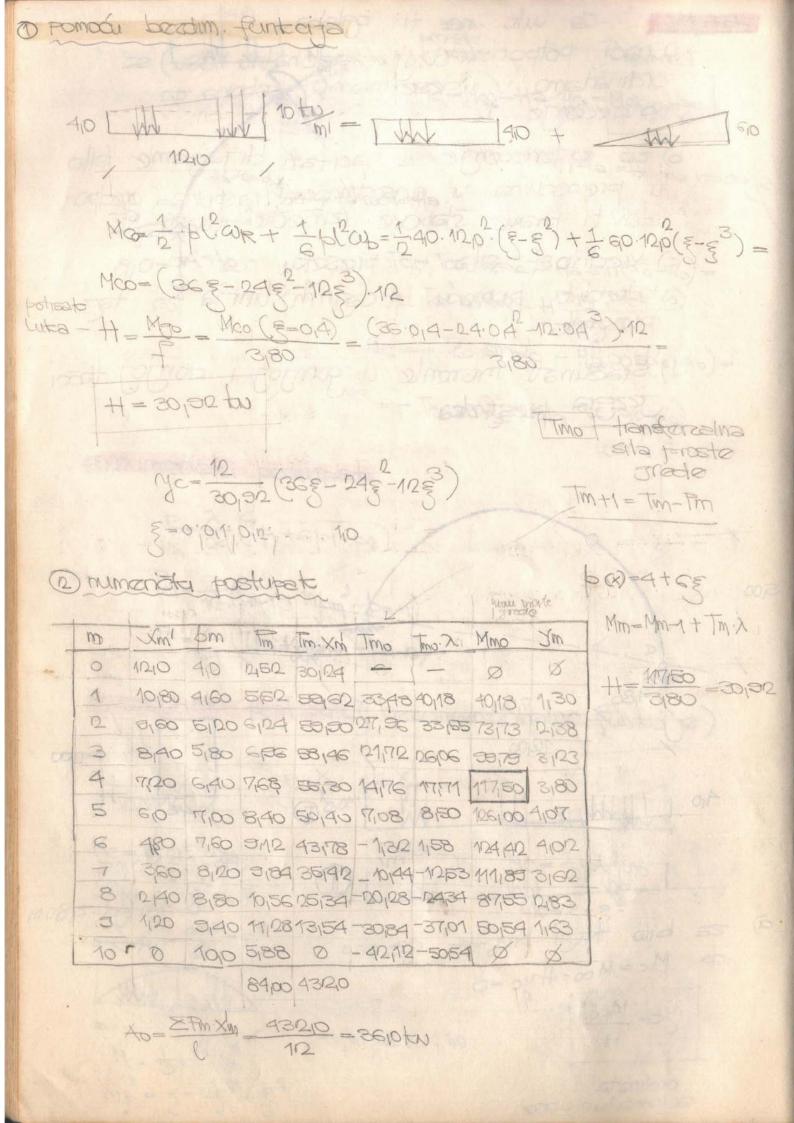
2024.

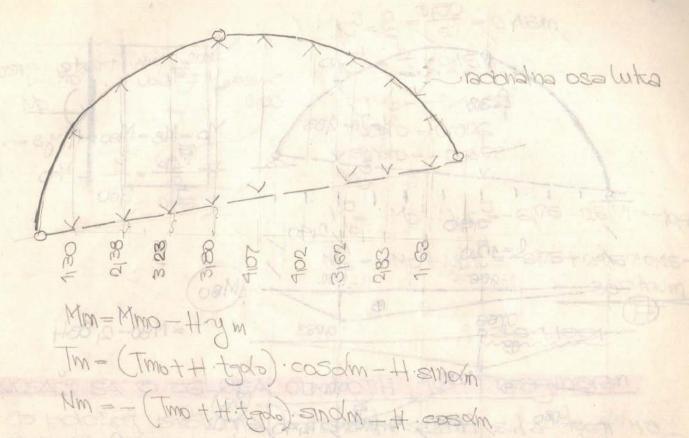
27.03.1991 MOSATI topi se sostoje od dvije KINEMATICKI TRUTE PLOCE — Lut ка три зглоба Hb pravac luche 12 Mgo-Hicoson F-0 Ha=Hb=H - ato mamo vertitalno optarcomje A = Xo+Ha. ando = Ao+Ha. tgo/o Hb-Hb cosdo B-B-Hb' 51116-B-Hb tgd.





CADAJAL to lute na tri zgloba: a) nati potpormu limitu (racionalmu osu) sa es anadas amenitasto u amatanibio opteredanje I b) sa optercoon e il nacrtati di pagname sila u presections u desertinama raspona (predpoc) vrednost sila u prosotu za §-0,8 adrediti pomodu uticejnih lunija za tej d) stacunati momente u gornjoj i donjoj tacci Jegra presjeta 5,00 7,20 12,00 4-0,00 11 f=50-480 tgd=3/80M क निष्ण निर्देश किए कि do Mc = Mco-Hyc =0 ordinata racionalne occ

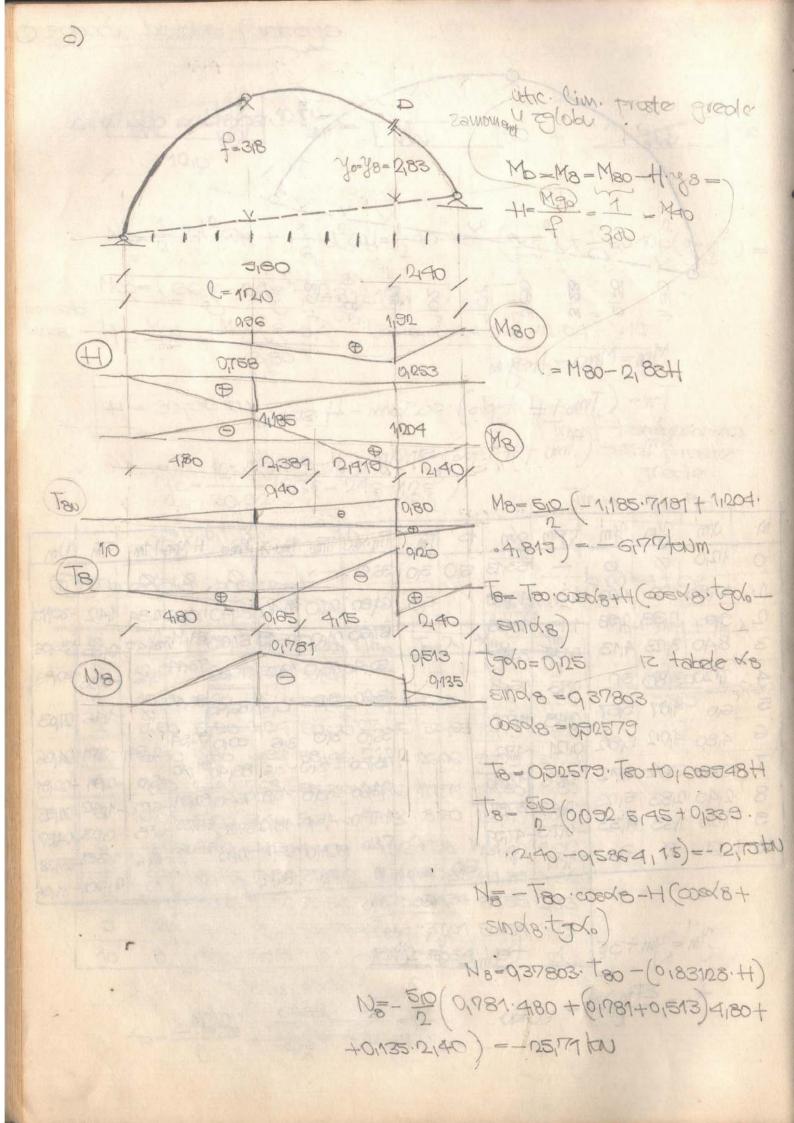


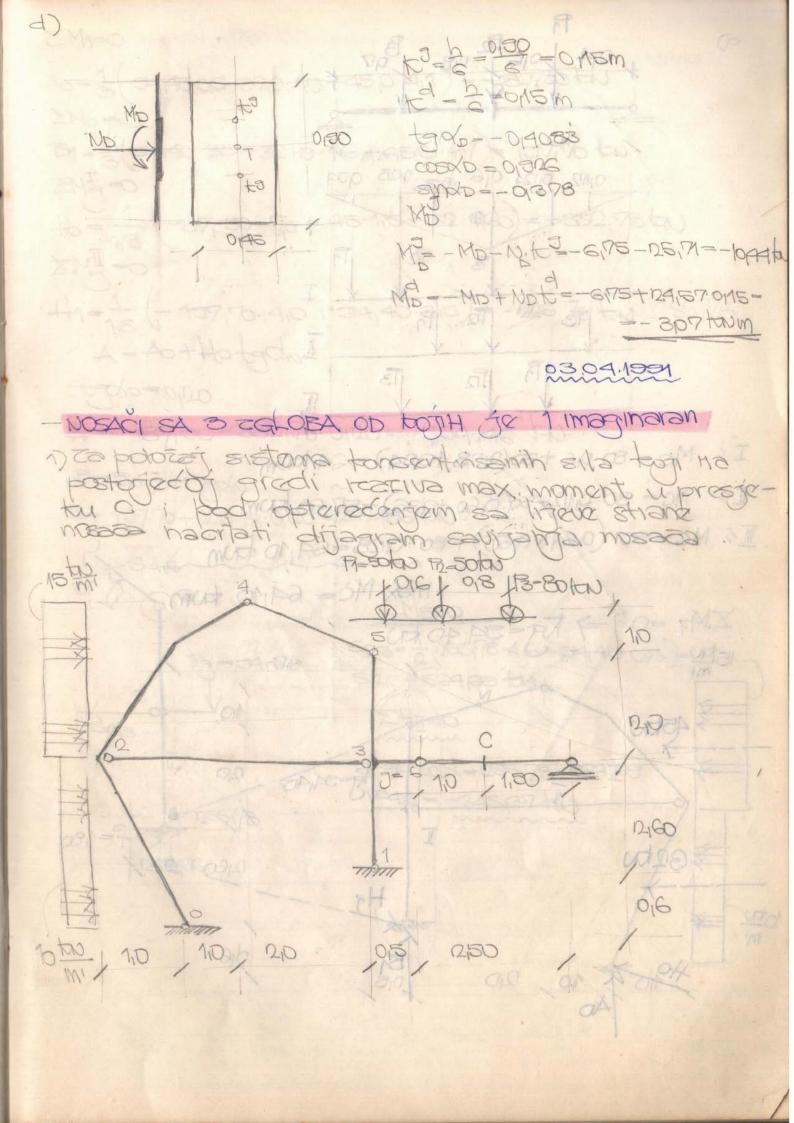


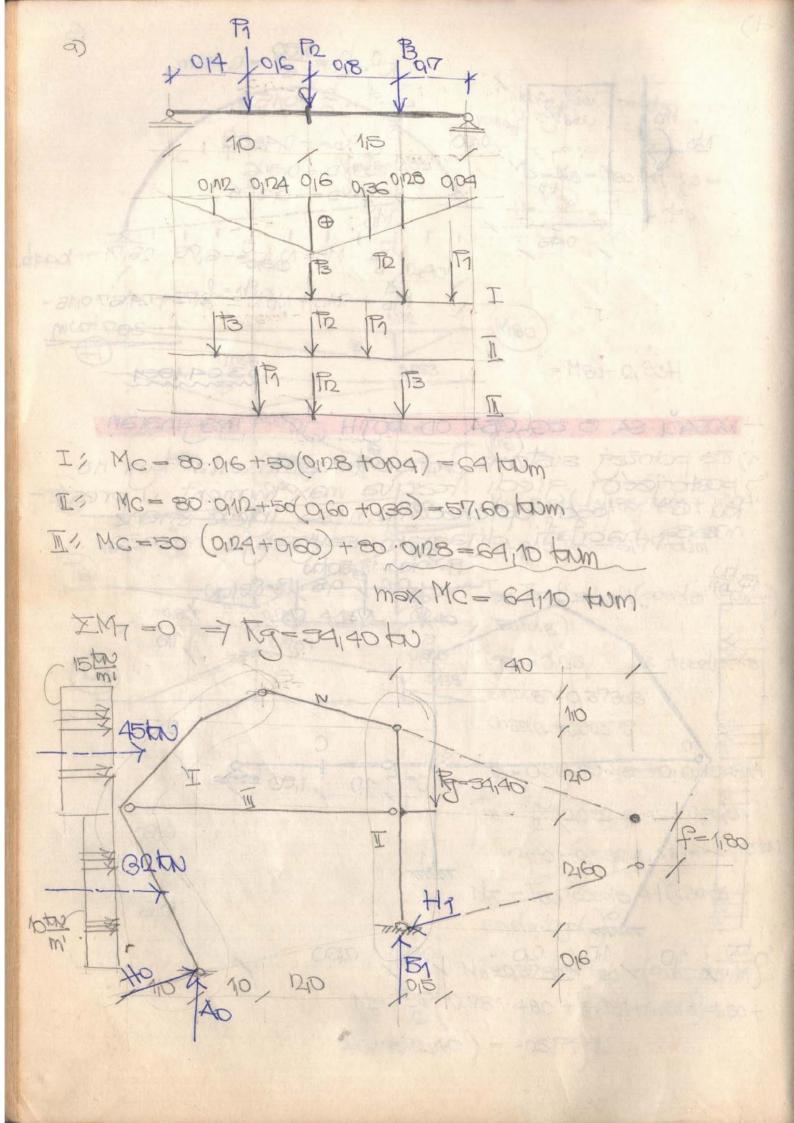
1	±q	2081 2014		29/65	156	maN.					ONG					
1	W	Xm'	Sw	ym.	todm	0m	p	Tm	Pm.Xm	Tmo	K.om?	Mmo	H. Ym	Mm	Tm	Um
	0	12,0	Ø	0		53/13	50	310	36,6	-		Ø	Ø	Ø	10	
	1	10,80		1160	13	48,99		610	84,80	ONE!	32,40	32A0	12056	284	142	cries-
-	3		2/38			ASTA	N.		5160	210-	05/00	57,60	,5A111.	3149	035	-35,06
2	4	7/20			0/36	35/34	1 20	CCAL I	50,40	1510	180	7560	7344		-0/80	the same of the
			407		0/13	25A1			43/20	OIC	10,80	86140	86,40			27,03
	6			5/8/2	0148	MITT			3610	310	RE	200	3254			
-	To	3180	362	5,772	-008	-4/76 LDDJA			118,80 12160	-310	010	00140		-	100 100 121	and the second
1	8	240	7183	5/123	-0141	-36,87		Y	1	0	10/0	1000	02121	C 571	IND	
1	2	11/20	1163	4133	-0,75	-47,39	V	610	1 100	1010	LIOIA	5160	2-11001	are !	0.02	namm
1	10	0	10	310	-1,11	The second second	510	310	Ø	- D1/10	304	32A0	Ø	466	139	-127,38
					33.00	7-3	4 ,	60	360		04170	9.		0	5160	-31,06
		Mym	- 1000	+20		E										
		On	= Ym	3CT		to	m =	Jm -	Ju-1							

Jm=ym+38 +36m=3m-3m-1

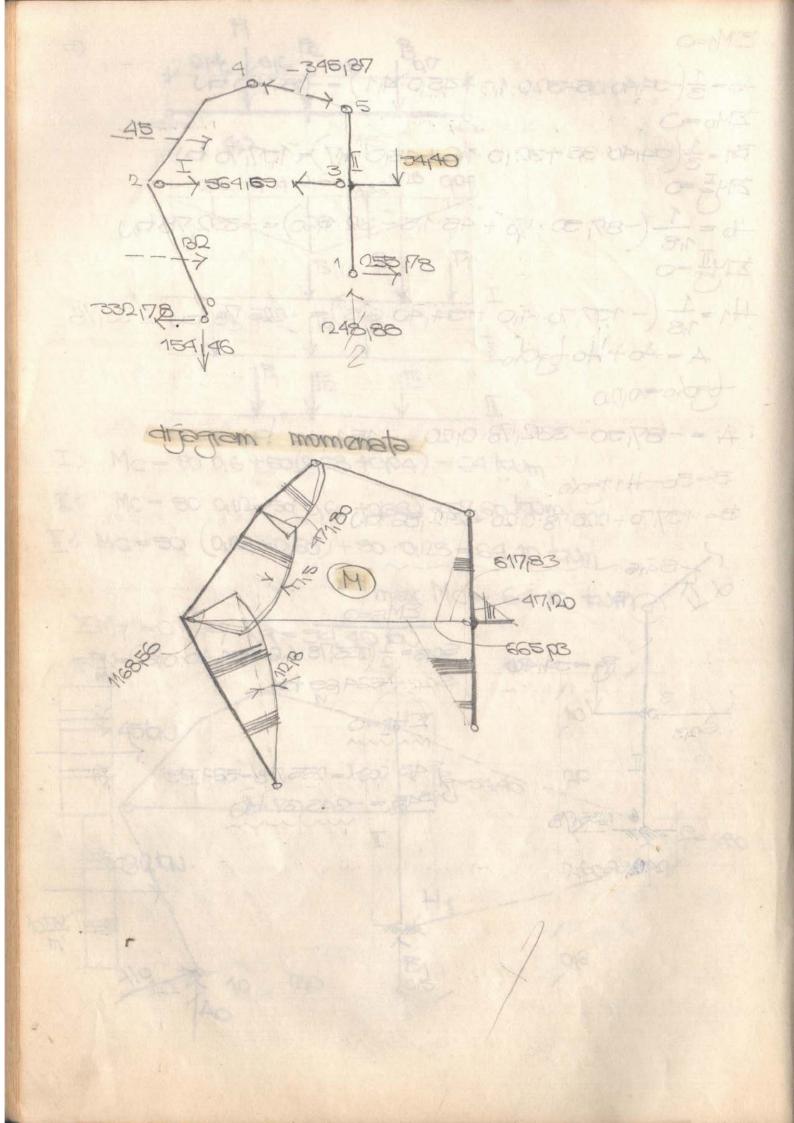
40=27m xm = 30tw #= 8040 = 02,74

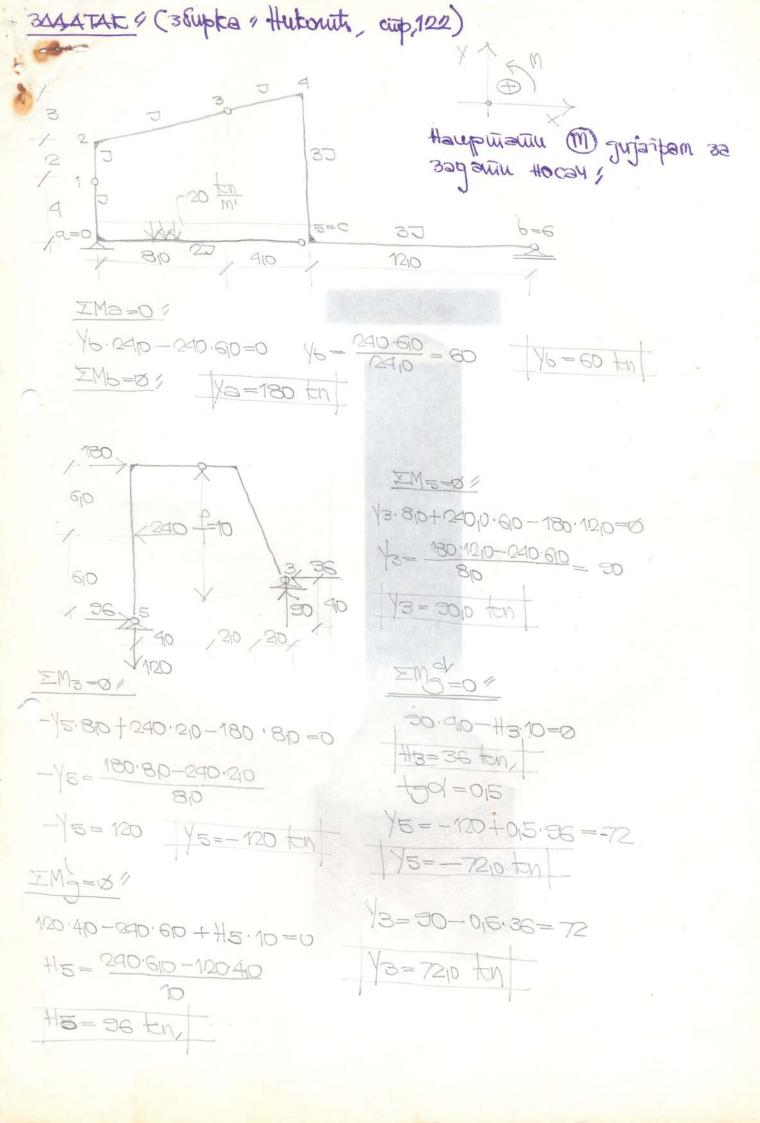


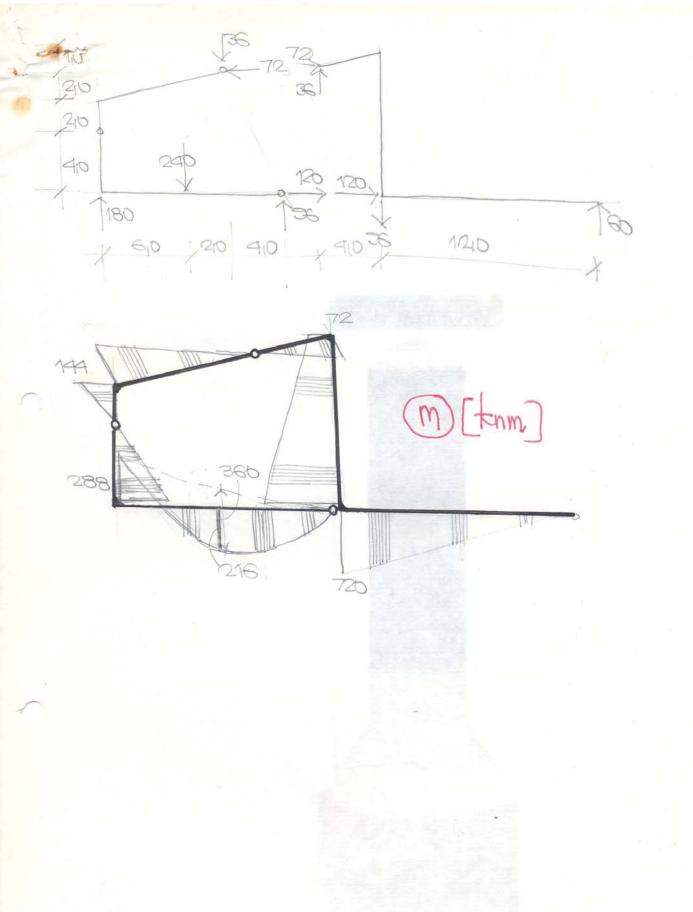


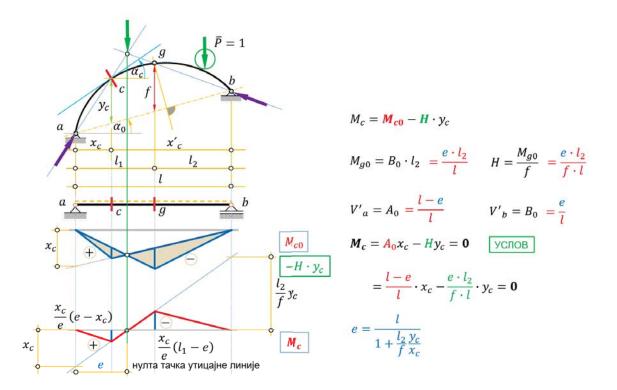


40=3(-34A0.05-320.10-45,0.41) =-87,30 to ZMO=C B1=3 (34/40:35+32/0.16+45/0.417)=107/70 tw 四月 +6=18 (-87, 30.70 + 45.15-32.160)=-352,78 to 四里-+11=18 (-107,76,40+34,40.315)=-225,78 for 255,78 A-Ao+Hotado to0-0120 A = -87,50-332,78.0120 =- 154,46 FN B=B0-H1 tako B= 137/70+1215/78.0/20=12A2/86 tN 60/70-EM5=0 5013= 1 (DE5/78-416-94140-015)= SAR = 56ARO tu. XHII=O ES/AS-0084-1255/78-589/69 34,5 = -345,737 to



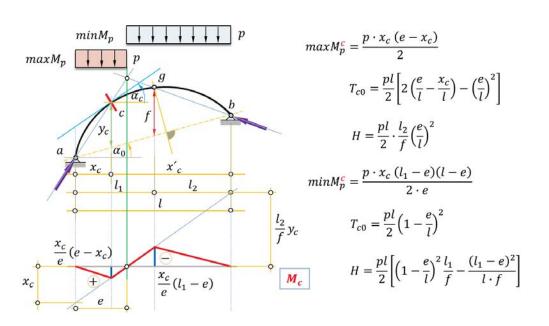




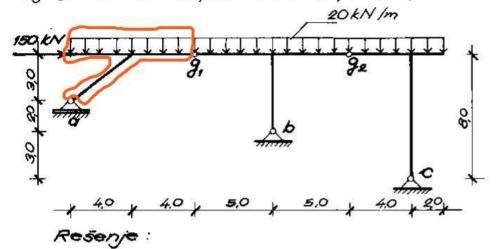


Екстремне вредности момента савијања

20

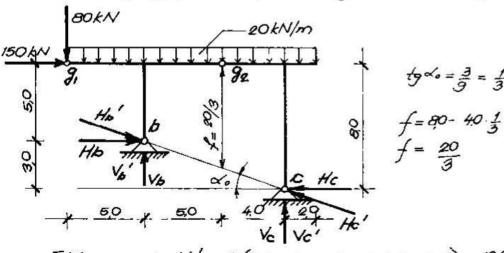


Za dati nosac i opterećenje sračunati i nocitati: dijagrame sila u presecima: M,T i N .



Odredivanje reakcija oslanaca

$$\Sigma Mg_1 = 0 \Rightarrow Va \cdot 80 = 20 \cdot 80 \cdot 40 \Rightarrow Va = 80 kN$$
 $Hg_1 = 150 \ kN$; $Vg_1 = 20 \cdot 80 \cdot 80 = 80 \ kN$
 $Deo g_1 - g_2$, a_1 b predstayly a luk no trizgloba.



$$ZMc = 0 \Rightarrow V_b' = \frac{1}{9} \left(\frac{80}{9} 14 - 150 \cdot 8 + 16 \cdot 20 \cdot 6 \right) = \frac{1840}{9}$$

$$ZMb = 0 \Rightarrow V_0' = \frac{1}{9} \left(\frac{20 \cdot 16 \cdot 3 + 150 \cdot 5 - 80 \cdot 5}{9} \right) = \frac{1310}{9}$$

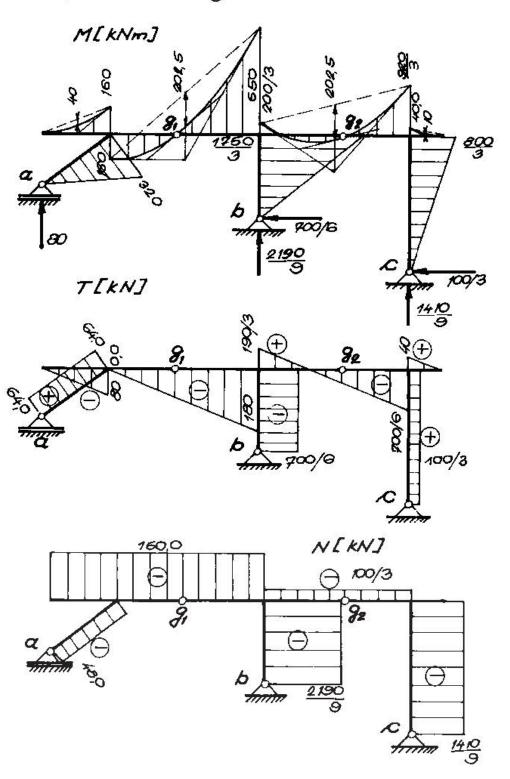
$$ZMg_2' = 0 \Rightarrow H_b = \frac{1}{f} \left(\frac{1840}{9} \cdot 5 - 80 \cdot 10 - 20 \cdot 10 \cdot 5 \right)$$

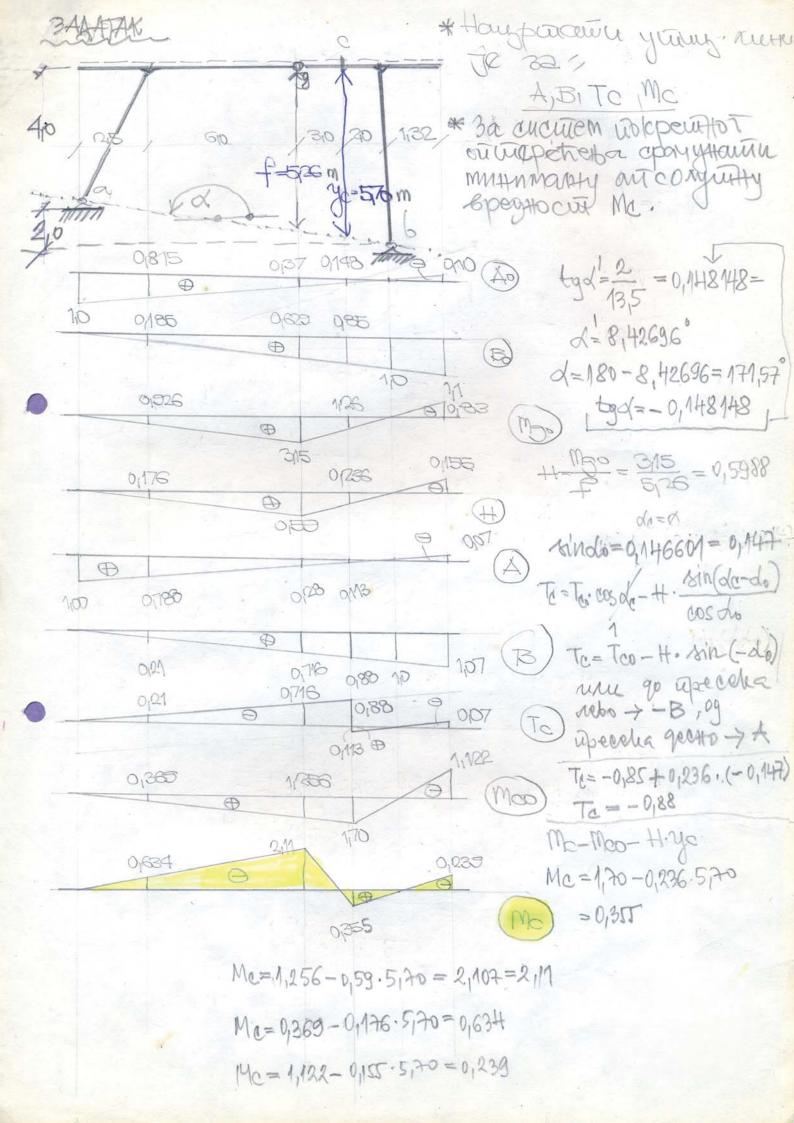
$$H_b = \frac{3}{20} \cdot \left(-\frac{7000}{9} \right) = -\frac{700}{6} \quad kN$$

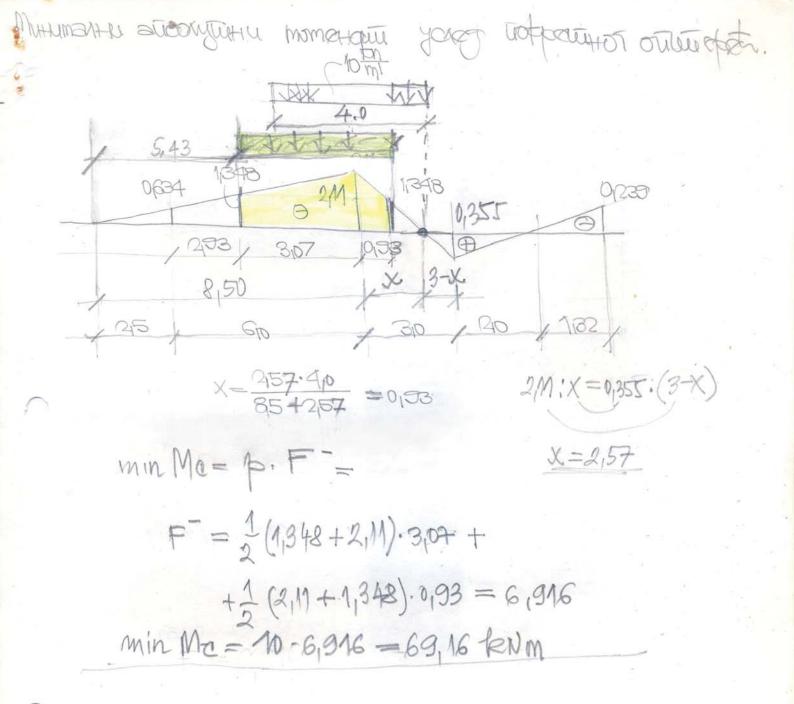
$$ZMg_2' = 0 \Rightarrow H_C = \frac{1}{f} \left(\frac{1310}{9} \cdot 4 - 6 \cdot 20 \cdot 3 \right)$$

$$= \frac{3}{20} \cdot \frac{2000}{9} = \frac{100}{3} \quad kN$$

Vb = Vb' - Hotgd. = 1840 + 700 1 = 2190 = 243,333 kN
Vc = Vc' + Hotgd. = 1310 + 100 1 = 1410 = 156,666 kN
Sa nadenim reakcijama ostonaca loko se
dobijaju traženi dijagrami M.T.N.







Контрола резултата - методом коначних елемената

