

COURSE WORK No. 2

Analyze the beam shown on the figure and draw the stress distribution diagrams in the critical section, if the cross-section consists of two standard shapes which are shown in *Table 1*. The values of the parameters are given in *Table 2*.

Table 1





	IPE 200 DIN 1025-5:1994		UPN 200 DIN 1026-1:2009
	L100x100x12 EN 10056-1:1999		L125x75x12 EN 10056-1:1999

Table 2

Variant	L, [m]	w, [kN/m]	P, [kN]	σ_{all} , [MPa]
1	1,2	5	10	180
2	1,4	6	15	190
3	1,6	7	20	200
4	1,8	8	23	180
5	2,1	9	25	190
6	2,3	10	28	210

