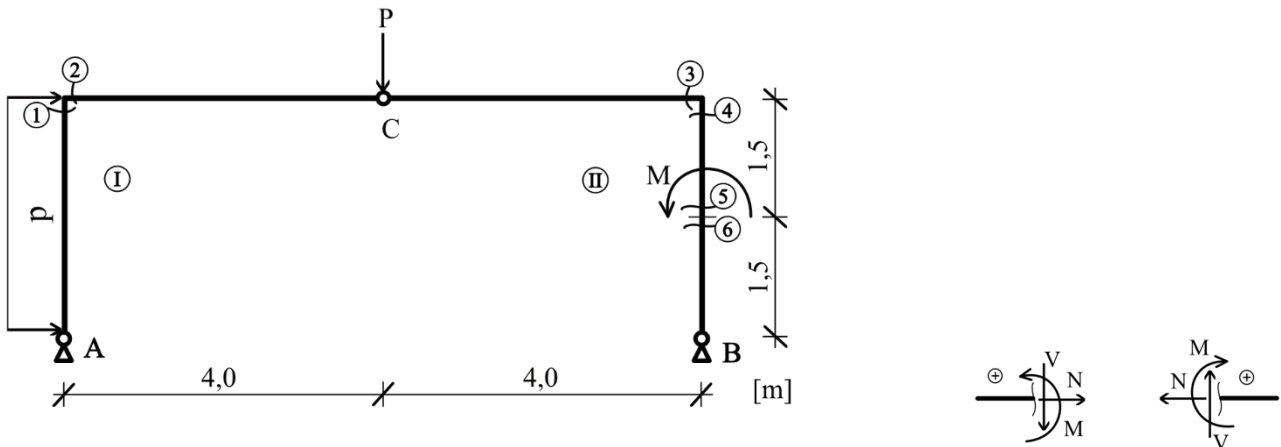**2. Draw the internal force diagrams (N, V, M) of the structure! (8+8 points)**

<u>Scan your calculations and internal force diagrams and submit them in Moodle!</u>

|	$p \, [kN/m]$	$P \, [kN]$	$M \, [kNm]$
Example data:	20	40	30
Individual data:			

The data marked by grey colour should be given as a signed value! Positive support reactions: ↑ → .

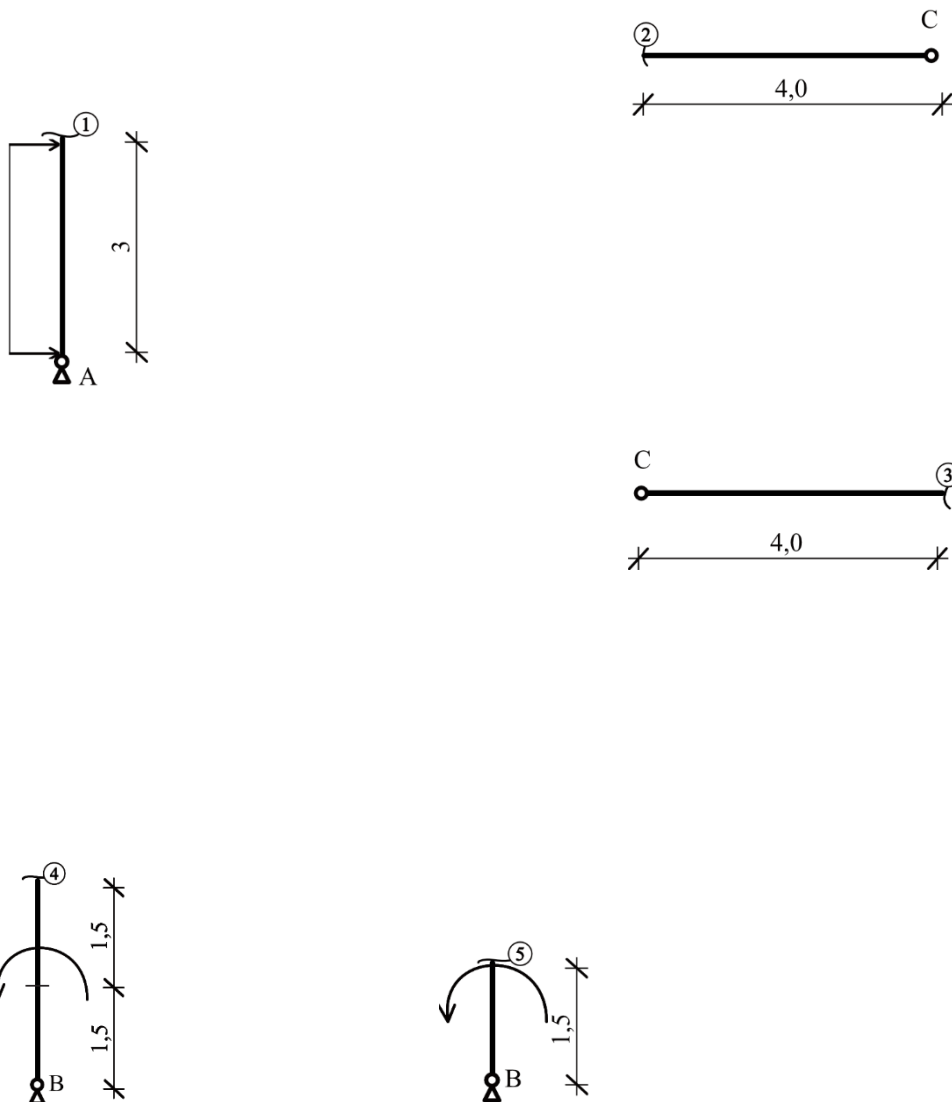|	N_1	N_2	N_3	N_4	N_5	N_6
Example solution:	-12,5	-46,67	-46,67	-27,5	-27,5	-27,5
Individual solution:						
	V_1	V_2	V_3	V_4	V_5	V_6
Example solution:	-46,67	+12,5	-27,5	+46,67	+46,67	+46,67
Individual solution:						
	M_1	M_2	M_3	M_4	M_5	M_6
Example solution:	-50	-50	-110	-110	-40	-70
Individual solution:						

	b [kNm]	M_{max} [kNm]	A_x [kN]	A_y [kN]	B_x [kN]	B_y [kN]	C_x^I [kN]	C_y^I [kN]	C_x^{II} [kN]	C_y^{II} [kN]
Example:	22,5	4,45	-13,33	+12,5	-46,67	+27,5	46,67	12,5	46,67	27,5
Individual:										

<u>Calculation of support reactions:</u>

Free-body diagram:
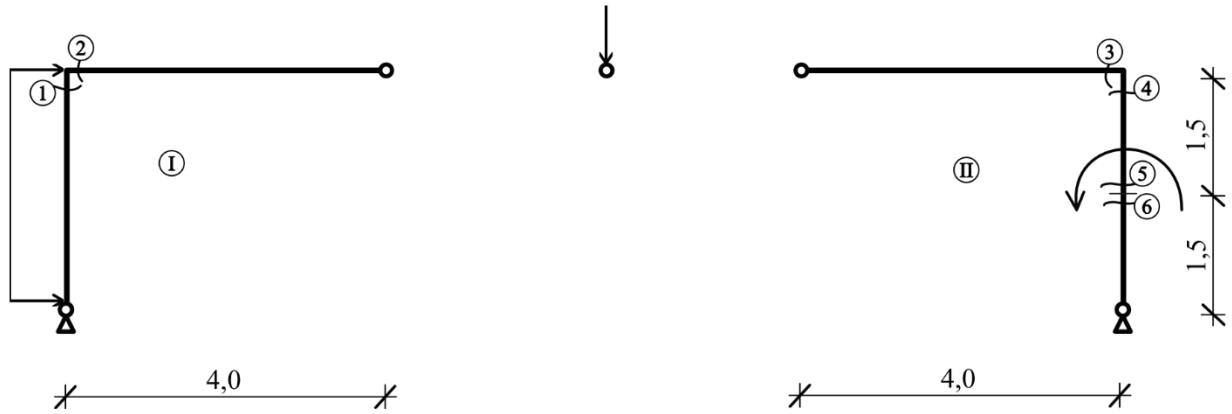
The structure cut at interesting points:

Internal force diagrams: