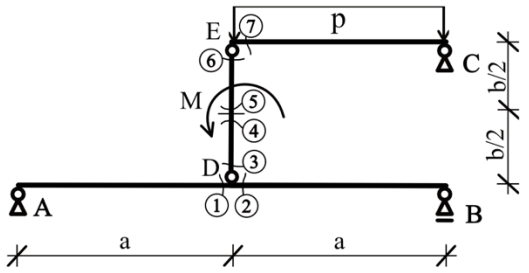
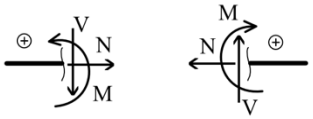
3. Draw the free-body diagram and the N, V, M diagrams of the structure! (7 + 7 points)

Scan your calculations and internal force diagrams and submit them in Moodle!



Data	$p\ [kN/m]$	$M\ [kNm]$	$a\ [m]$	$b\ [m]$
Example	20	30	3	2
Individual				

The data indicated with grey colour should be given as signed value at the web site! positive supports: ↑ →.



Results	N_1	N_2	N_3	N_4	N_5	N_6	N_7
Example	+15	0	-30	-30	-30	-30	+15
Individual							
	V_1	V_2	V_3	V_4	V_5	V_6	V_7
Example	+15	-15	+15	+15	+15	+15	+30
Individual							
	M_1	M_2	M_3	M_4	M_5	M_6	M_7
Example	+45	+45	0	+15	-15	0	0
Individual							

Results	b [kNm]	M_{max} [kNm]	A_x [kN]	A_y [kN]	B_y [kN]	C_x [kN]	C_y [kN]	D_x [kN]	D_y [kN]	E_x [kN]	E_y [kN]
Example	22,5	+22,5	-15	+15	+15	+15	+30	15	30	15	30
Individual											