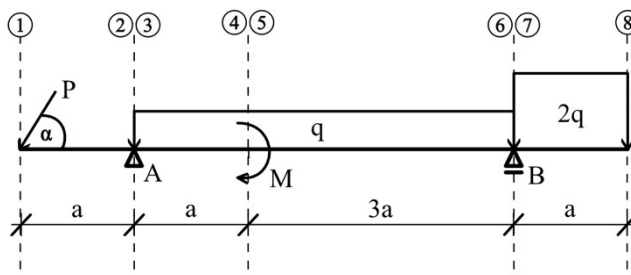


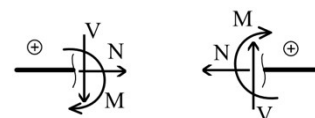
**4. Calculate the internal force (N, V, M) diagrams of the beam! (2 + 3 points)**

**The internal force diagrams should be handed in in paper format!**



Data	$P$ [kN]	$\alpha$ [°]	$q$ [kN/m]	$a$ [m]	$M$ [kNm]
Example:	10	45	5	1,5	15
Individual:					

The data marked by grey colour should be a signed value!  
 Supports: positive  $\uparrow, \rightarrow$ . Internal forces: according to figure!



Results	$N_1$	$N_2$	$N_3$	$N_4$	$N_5$	$N_6$	$N_7$	$N_8$
Example:	+7,07	+7,07	0	0	0	0	0	0
Individual:								
	$V_1$	$V_2$	$V_3$	$V_4$	$V_5$	$V_6$	$V_7$	$V_8$
Example:	-7,07	-7,07	+12,39	+4,89	+4,89	-17,61	+15	0
Individual:								
	$M_1$	$M_2$	$M_3$	$M_4$	$M_5$	$M_6$	$M_7$	$M_8$
Example:	0	-12,39	-12,39	+2,36	+17,36	+11,25	+11,25	0
Individual:								

	$M_{max}$ [kNm]	$b_{3-4}$ [kNm]	$b_{5-6}$ [kNm]	$b_{7-8}$ [kNm]
Example:	19,75	1,4	12,66	2,81
Individual:				