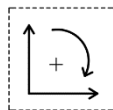
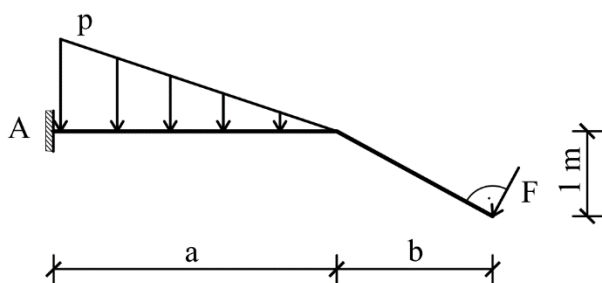


**HW5.**

The cantilever below is loaded by the **triangle-shaped** distributed load with maximum value  $p$  [kN/ meter] and the concentrated load  $F$  [kN].

- Determine the resultant of load  $p$  ( $R=?$  [kN]) and the components of load  $F$  ( $F_x=?$  [kN] and  $F_y=?$  [kN]) **with their signs (the positive directions are shown in the figure)!**
- Compute the support reactions  $A_x$  [kN],  $A_y$  [kN] and  $M_A$  [kNm]! Determine the support reactions **with their signs (the positive directions are shown in the figure)!**
- Indicate all the forces and support reactions** acting on the structure in the figure! Also make a so-called **"result-figure"** in which you indicate all these items with their real magnitude and direction (for example for  $A_x$ : 10 kN  $\rightarrow$ )



**[40 points]**