3. Calculate the support reactions and draw the internal force diagrams! (8+8 points)


Data:

| $a[m]$ | $b[m]$ | $q[k N / m]$ | $P[k N]$ |
| :--- | :--- | :---: | :---: |
|  |  |  |  |

Results: (No sign is required)

| $A[\mathrm{kN}]$ | $B[\mathrm{kN}]$ | $C[k N]$ | $D[\mathrm{kN}]$ | $E[\mathrm{kN}]$ | $F[\mathrm{kN}]$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |

