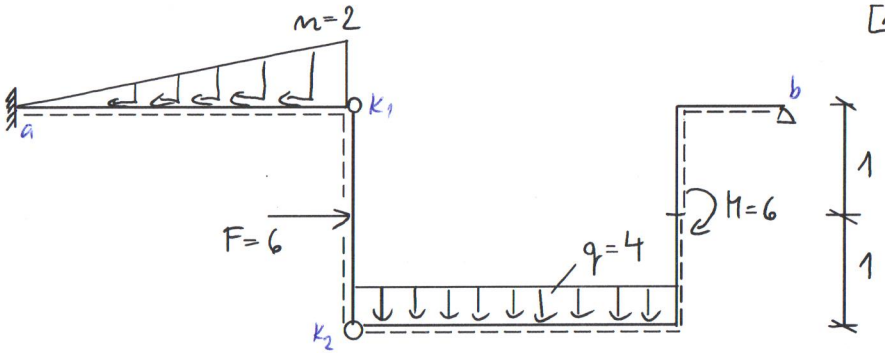


N

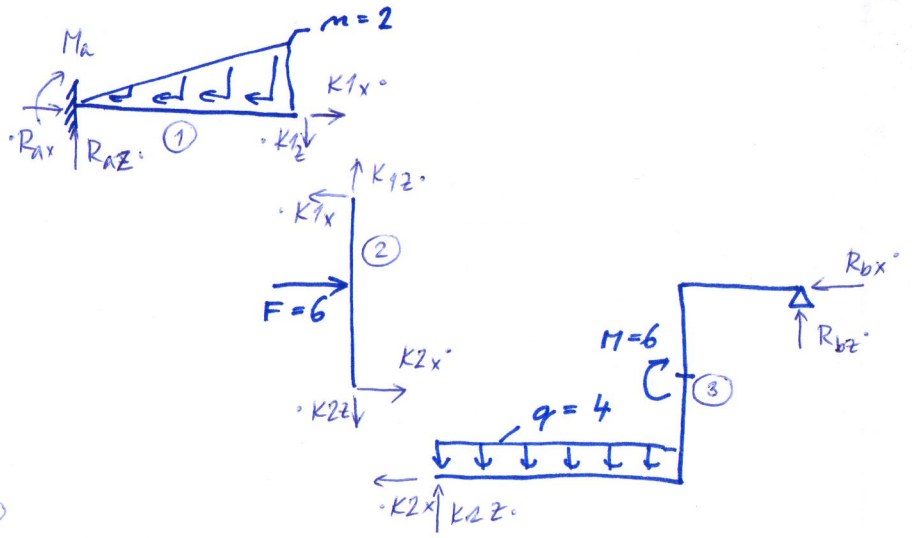
V

M

$x_p = \frac{7,5}{4} = 1,875\ m$

$M_p = 0 + \frac{1}{2} \cdot 7,5 \cdot 1,875 = 7,03125\ kNm$

[m, kN, kNm, kN/m]



② $\circlearrowleft^{+}$ $\sum M_{iK1} = 0$: $F \cdot 1 + K2x \cdot 2 = 0$

$K2x = \frac{-6 \cdot 1}{2} = -3\ kN$

② $\sum F_{ix} = 0$: $-K1x + F + K2x = 0$

$K1x = 6 + (-3) = 3\ kN$

③ $\circlearrowleft^{+}$ $\sum M_{ib} = 0$: $-K2x \cdot 2 - K2z \cdot 4 + q \cdot 3 \cdot 2,5 - M = 0$

$K2z = \frac{-(-3) \cdot 2 + 4 \cdot 3 \cdot 2,5 - 6}{4} = 7,5\ kN$

② $\sum F_{iz} = 0$: $K12 - K22 = 0 \rightarrow K12 = 7,5\ kN$

③ $\sum F_{ix} = 0$: $-K2x - R_{bx} = 0 \rightarrow R_{bx} = -(-3) = 3\ kN$

③ $\circlearrowleft^{+}$ $\sum M_{iK2} = 0$: $-q \cdot 3 \cdot 1,5 - M + R_{bx} \cdot 2 + R_{bz} \cdot 4 = 0$

$R_{bz} = \frac{4 \cdot 3 \cdot 1,5 + 6 - 3 \cdot 2}{4} = 4,5\ kN$

① $\sum F_{ix} = 0$: $R_{ax} - \frac{1}{2} n \cdot 3 + K1x = 0 \rightarrow R_{ax} = \frac{1}{2} \cdot 2 \cdot 3 - 3 = 0$

① $\sum F_{iz} = 0$: $R_{az} - K12 = 0 \rightarrow R_{az} = K12 = 7,5\ kN$

① $\circlearrowleft^{+}$ $\sum M_{ia} = 0$: $-M_a - K12 \cdot 3 = 0 \rightarrow M_a = -7,5 \cdot 3 = -22,5\ kNm$