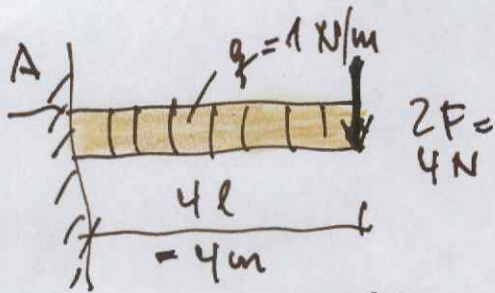
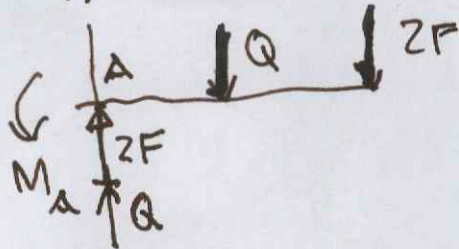


Statik



$$F = 2\text{N}, l = 1\text{m} \quad q = 1\text{ N/m}$$

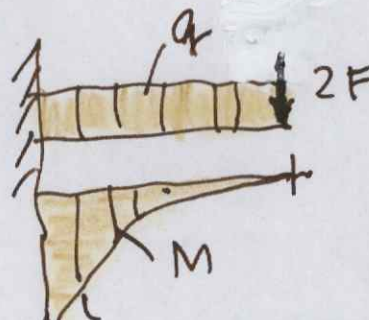
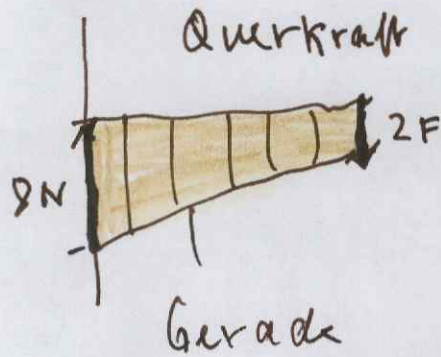
$$2F = 4\text{N}$$



$$Q = 4\text{N}$$

$$M_A = 2F \cdot 4\text{m} + 4\text{N} \cdot 2\text{m} =$$

$$M_A = 16\text{Nm} + 8\text{Nm} = 24\text{Nm}$$



$$M_{\text{max}} = 24\text{Nm}$$

Diagram of a beam section of length x with a uniformly distributed load q . The total load is $q \cdot x$. Reaction forces at support A are $2F$ and M_A . The bending moment at the section is $M_x = 2F \cdot x + \frac{q \cdot x^2}{2}$.

Urtextur vorbehalten

11.06.2022