

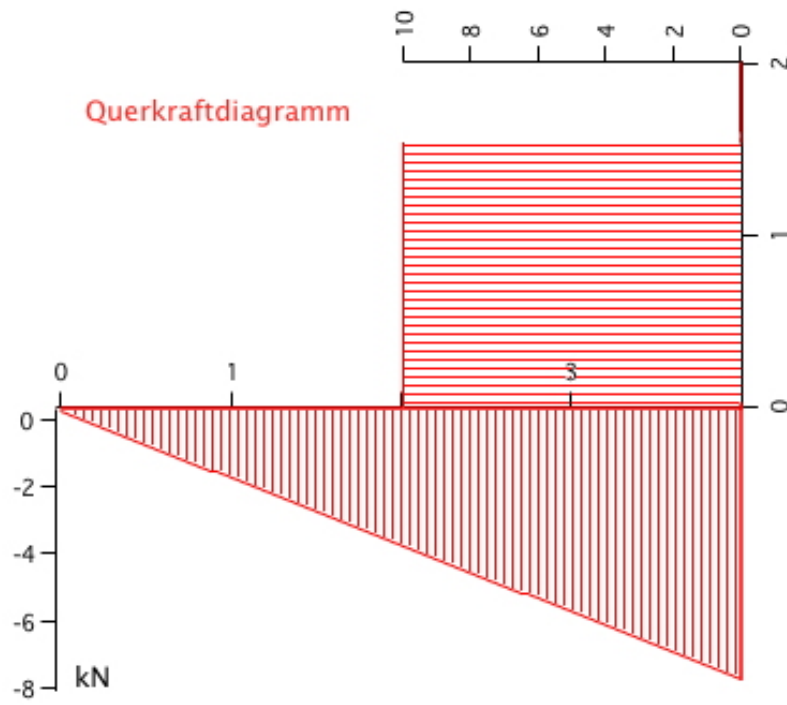
Lokale Querkräfte:

horizontal

$$Q_z(0 \leq x \leq 4m) = 0.25kN - 2 \frac{kN}{m} x$$

vertikal

$$Q_z(x) = \begin{cases} 10kN & 0 \leq x \leq 1.5m \\ 0kN & 1.5 < x \leq 2m \end{cases}$$



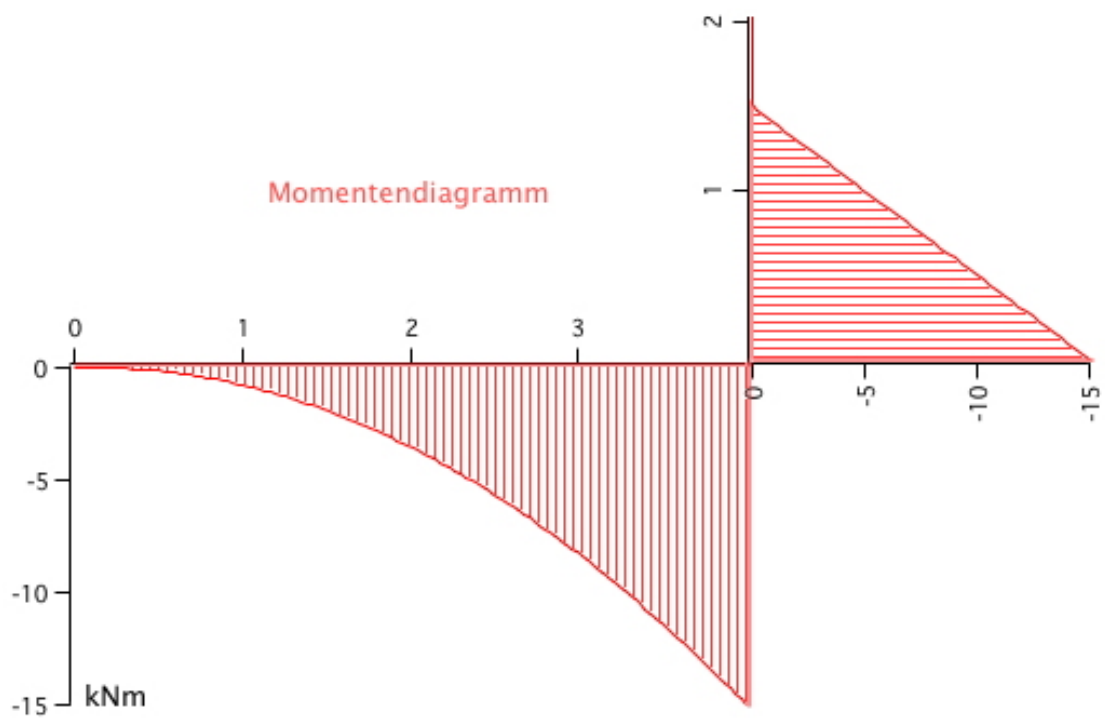
### Lokale Biegemomente:

horizontal

$$M_y(0 \leq x \leq 4m) = x \left( 0.25kN - 1 \frac{kN}{m} x \right)$$

vertikal

$$M_y(x) = \begin{cases} -15kNm + 10kNx & 0 \leq x \leq 1.5m \\ 0kNm & 1.5 < x \leq 2m \end{cases}$$



Beachten Sie:

$$\frac{dM_y(x)}{dx} = Q_z(x)$$