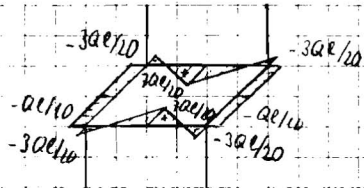


Bau Stahl I+II

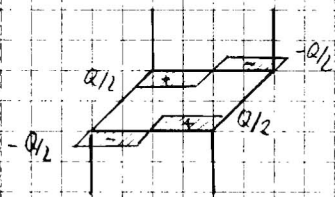
Lösung der Fernanpassung

Herbst 99

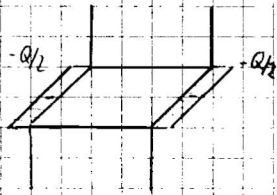
1a) M:



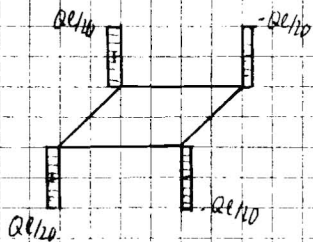
V:



N:



T:



(b) 
$$\delta_H = \frac{11 QL^3}{120 EI}$$

2a) Stab 5-7: am unteren Rand ( $|\Delta\sigma| = 0,2004 \cdot \Delta T \cdot E$ )

b)  $|\Delta T| = 4,991 \frac{\Delta\sigma}{\alpha \cdot E}$

c)  $|\Delta w| = 8,525 \cdot \alpha \cdot \Delta T \cdot l$

3a)  $M_y = a^3 f_y$

$M_x = \frac{5}{3} a^3 f_y$

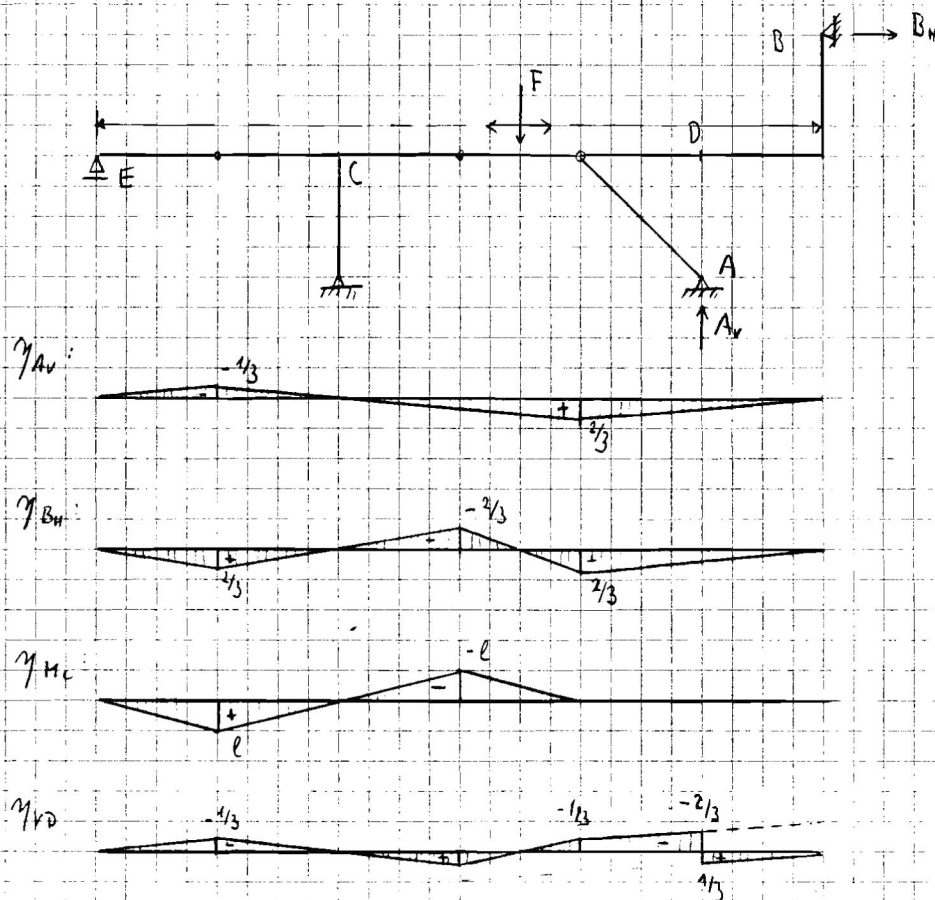
b)  $Q_y = \frac{M_y}{5a} = \frac{a^2 f_y}{5}$

c)  $Q_x = \frac{M_x}{3a} = \frac{a^2 f_y}{3}$

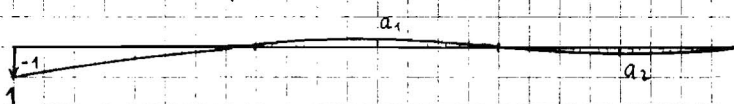
d)  $w_y = \frac{25}{3} \frac{a f_y}{E}$

$w_x = 50 \frac{a f_y}{E}$

4a)

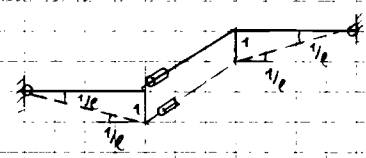


$\eta_{E_v}$ : (bei blockierten Gelenken)

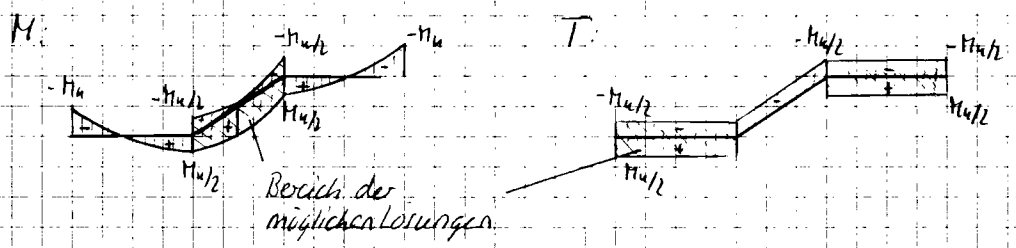


$a_1 > a_2$

5.a)  $q_u = \frac{M_u}{\rho^2}$

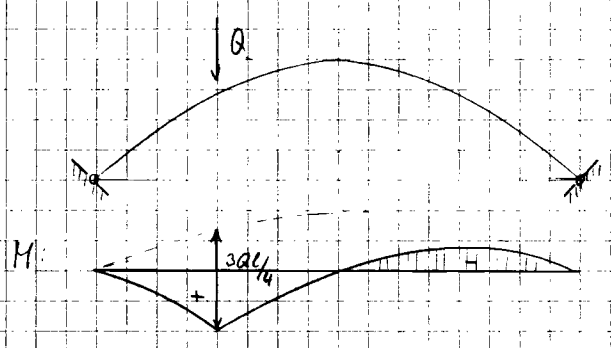


Plachzitatungskurve:

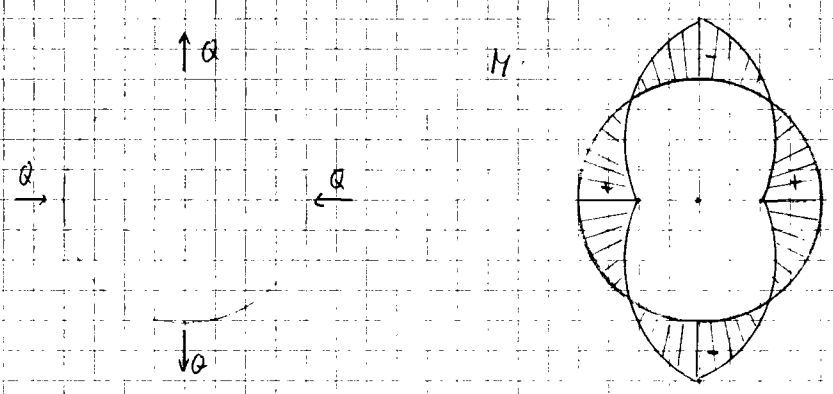


b)  $M$ -Linie ändert nicht  $\rightarrow$  System ist ein Mechanismus  
 $\rightarrow$  Zwängungen haben keinen Einfluss auf Traglast

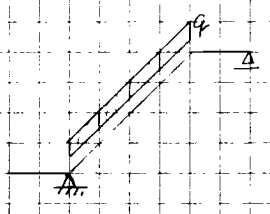
6. a)



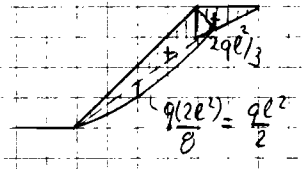
b)



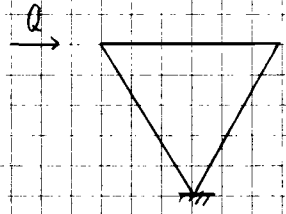
c)



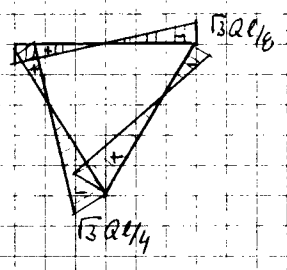
M



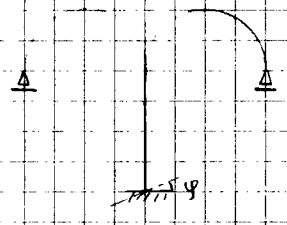
d)



M



e)



M

