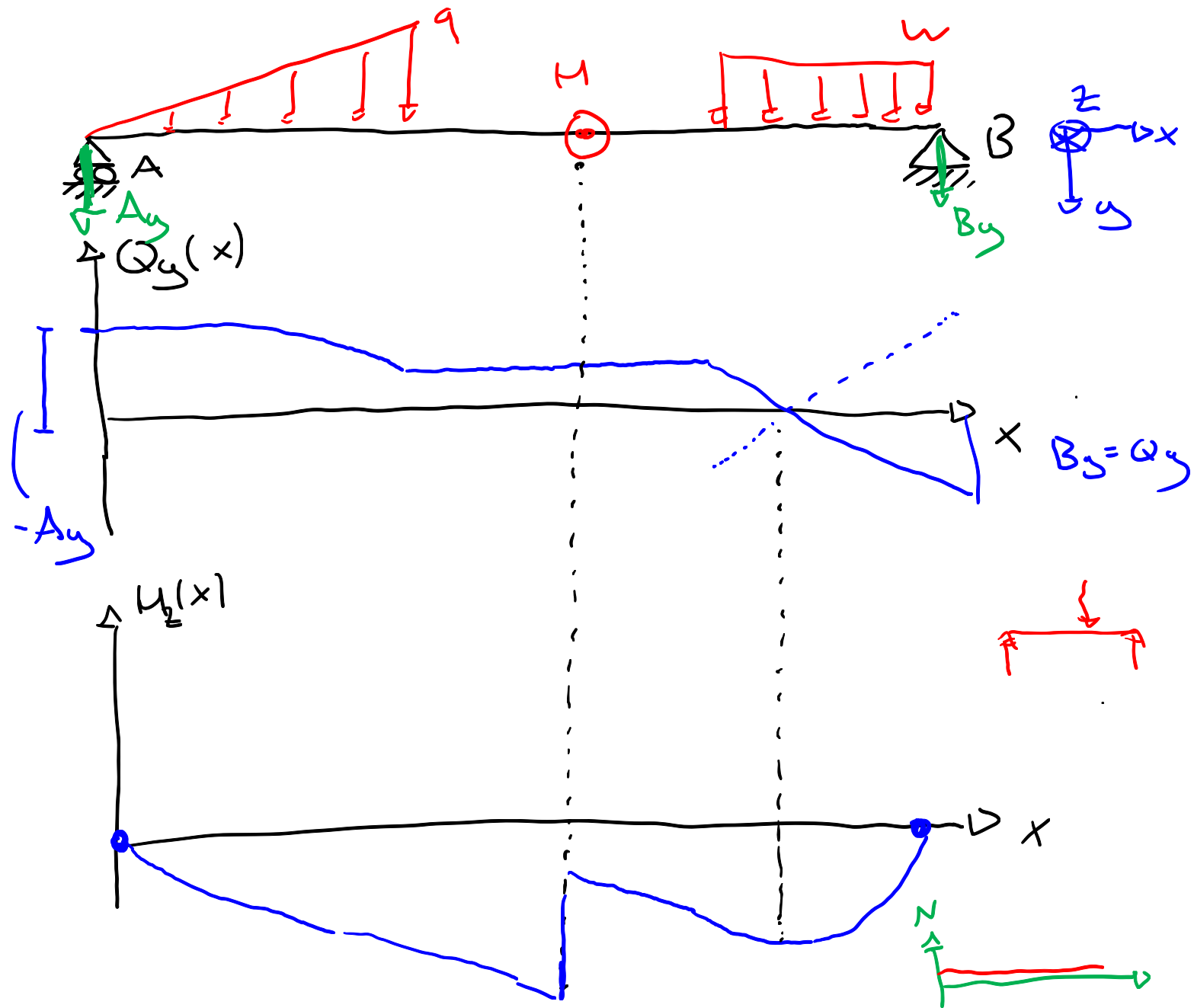




1.) Lager

$$\triangle Q_y \neq 0, M_z = 0, \triangle Q_y \neq 0, M_z = 0$$

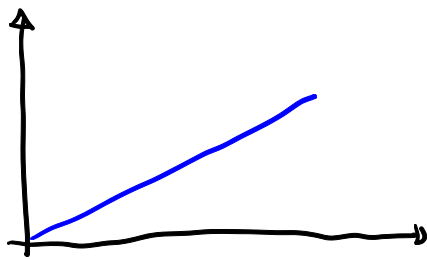
2.) Lagerreaktion

$$A_y = Q_y(x=0) \cdot (-1)$$

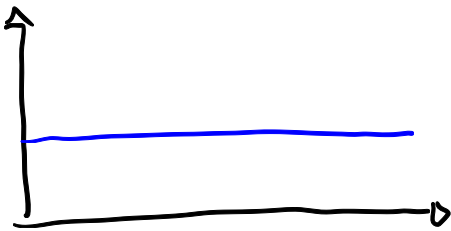
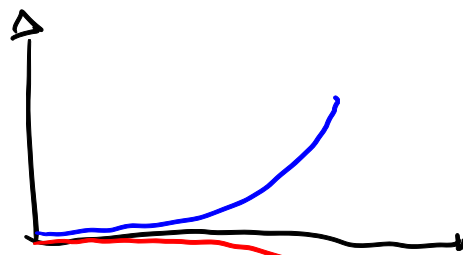
$$\int_0^L Q_y(x) dx = A_y$$

3.) Differentialbeziehungen:

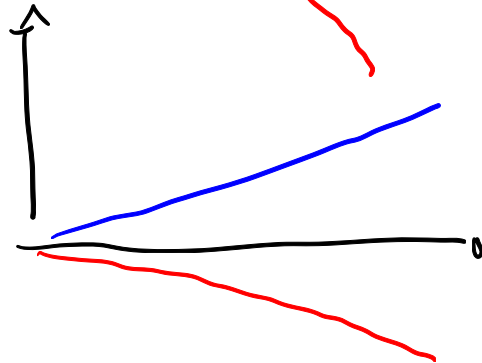
$$Q_y' = -q_y \rightarrow Q_y = \ominus \int q_y dx + C_1$$



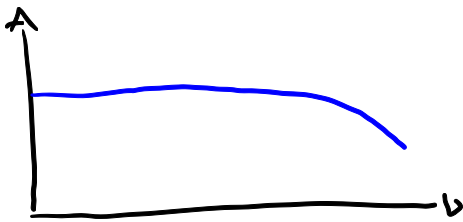
$\int$



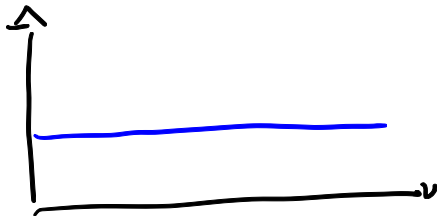
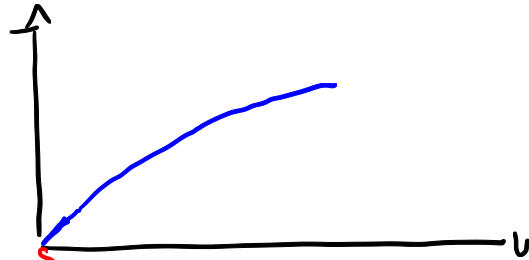
$\int$



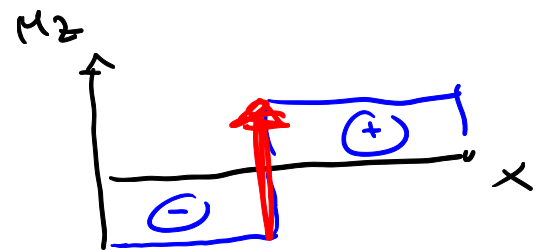
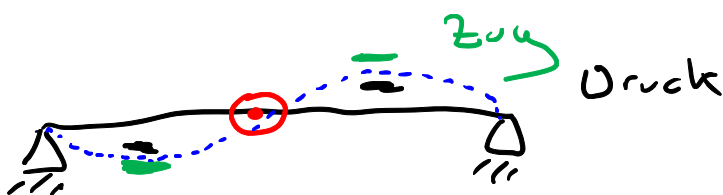
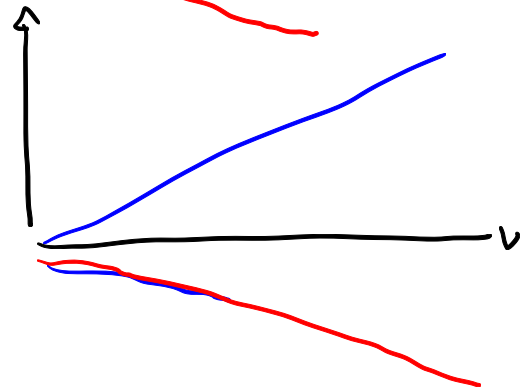
$$M_z' = -Q_y \rightarrow M_z = \ominus \int Q_y dx + C_2 = \int -Q_y dx + C_2$$

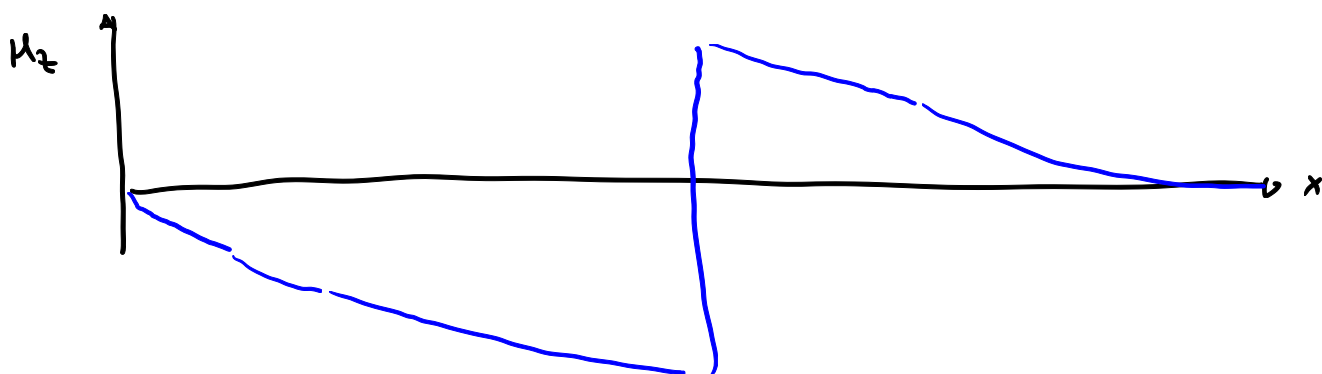
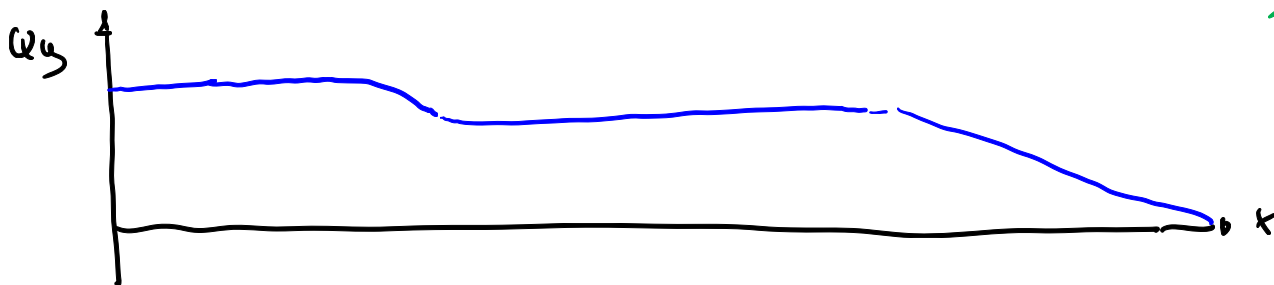
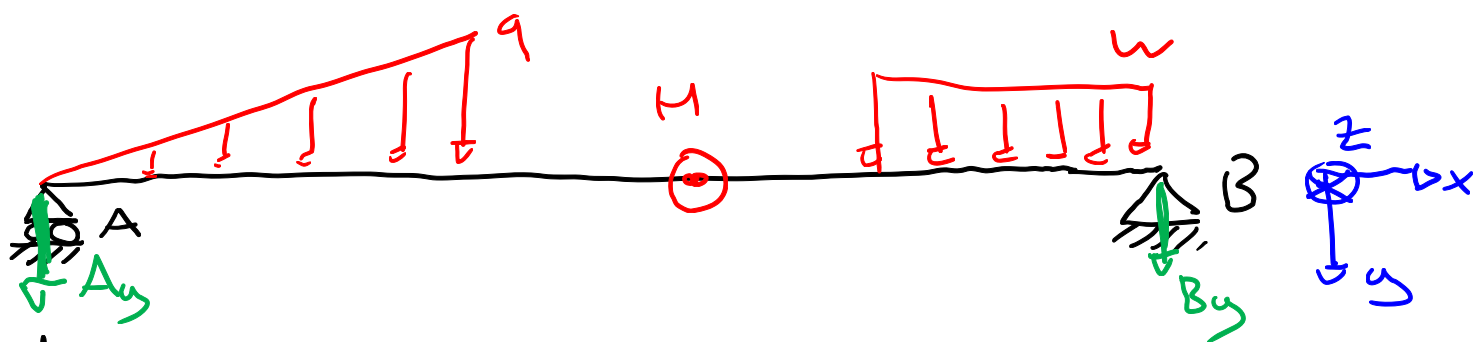
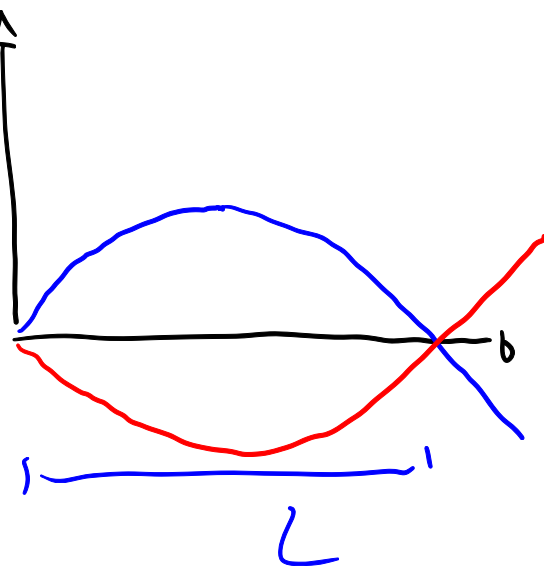
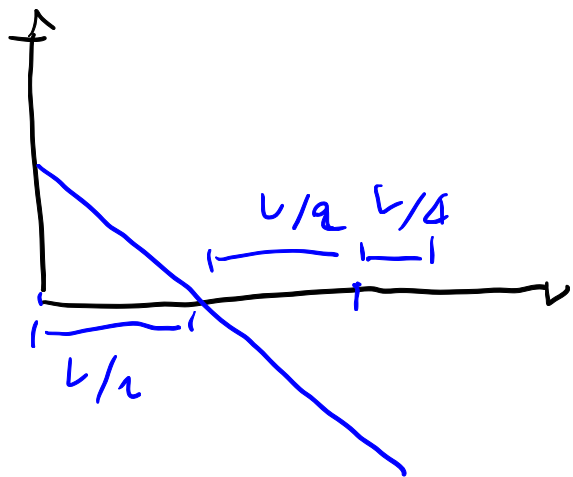


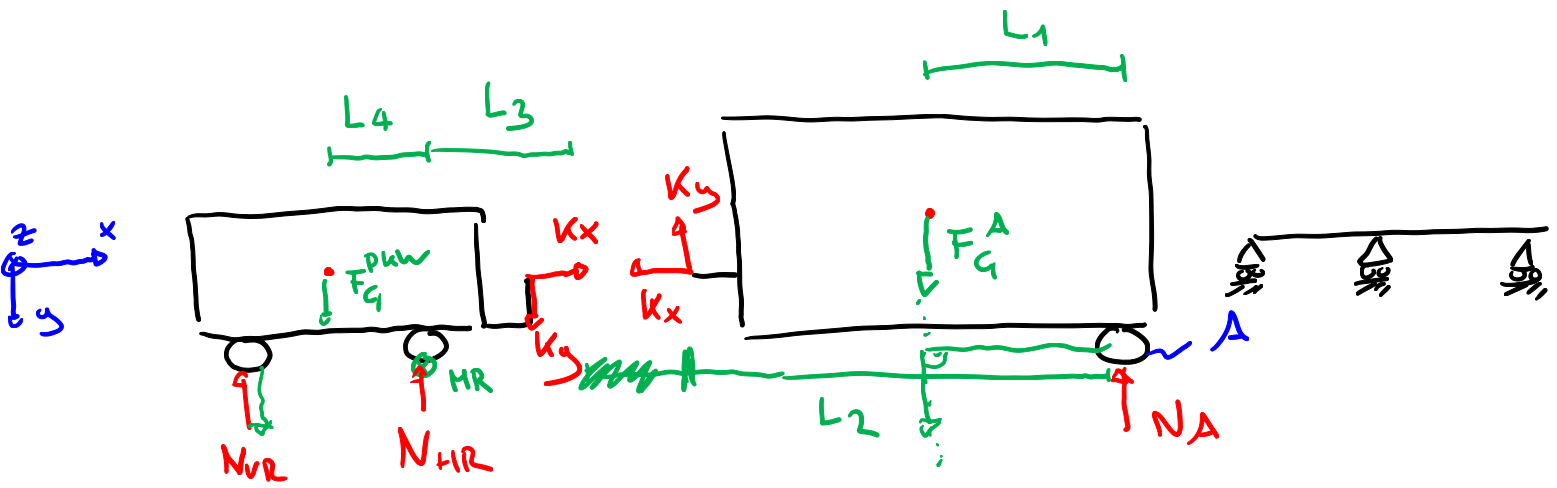
$\int$



$\int$







→ GGB am Anhänger:

$$\sum F_x: K_x = 0$$

$$\sum F_y: -K_y + F_g^A - N_A = 0 \rightarrow N_A = -K_y + F_g^A$$

$$\sum \bar{z}: -F_g^A L_1 + K_y L_2 = 0 \rightarrow K_y = \frac{F_g^A L_1}{L_2}$$

→ GGB am PKW:

$$\sum M_z^{im HR}: M_R + K_y L_3 - F_g^{PKW} L_4 + N_{VR} L_5 = 0$$

$$N_{VR} = \frac{F_g^{PKW} L_4 - K_y L_3 - M_R}{L_5} = 375 \text{ N} > 0$$

→ VR hebt nicht ab