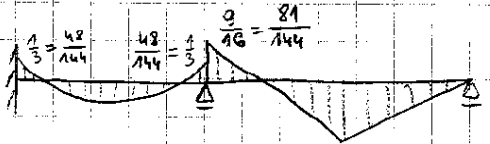


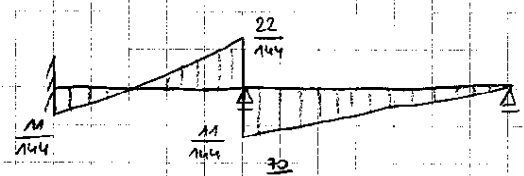
$$M_1 \left[\frac{EJ}{l} \right]$$



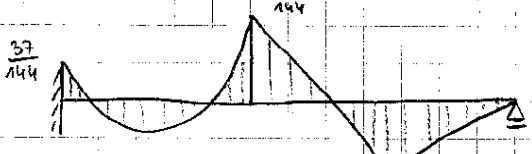
$$M_p \left[ql^2 \right]$$

$$r_{M1} = 3 \frac{EJ}{l} \quad R_{MP} = \left(\frac{1}{3} - \frac{q}{16} \right) ql^2 = \frac{16}{48} - \frac{27}{48} = -\frac{11}{48} ql^2$$

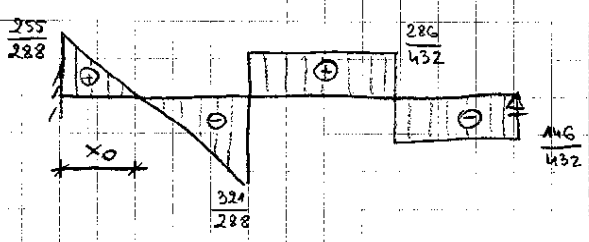
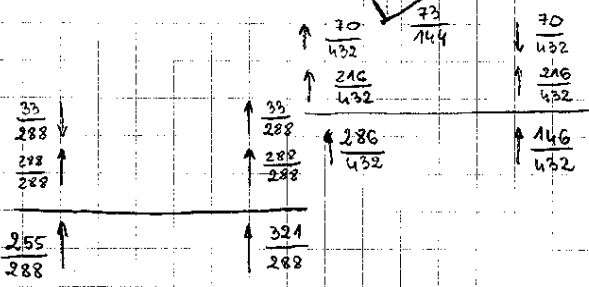
$$z_1 = -\frac{R_{MP}}{r_{M1}} = \frac{11}{48} ql^2 \cdot \frac{1}{3} \frac{1}{EJ} = \frac{11}{144} \frac{ql^3}{EJ}$$



$$M_1 \cdot z_1 \left[ql^2 \right]$$



$$M \left[ql^2 \right]$$



$$T \left[ql \right]$$

$$x_0 = \frac{255}{288} \frac{ql}{q} = \frac{255}{288} l$$

$$M_{max} = -\frac{37}{144} ql^2 + \frac{255}{288} ql \cdot \frac{255}{288} l - q \cdot \frac{255}{288} l \cdot \frac{1}{2} \cdot \frac{255}{288} l = \frac{2489}{18432} ql^2 = 0,135 ql^2$$