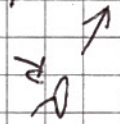


KOORDINATEN $N_{AD} = P$

$$\delta_{IP} + X' \delta_{II} = \Delta$$

$$X' = 400 A_{BE}$$



$$\delta_{IP} = \frac{1}{7} N_{AD} \cdot N_{AD} \cdot \frac{EA}{EA} \cdot l_1 = -2 \left(\frac{5}{3} \right) \left(\frac{3}{3} \right) P \frac{5}{3} \frac{L}{EA}$$

$$-\frac{P^3 L}{4 EA} - \left(\frac{4}{3} \right) \left(\frac{3}{3} \right) P \frac{L}{EA} = -2 \frac{mm}{mm}$$

$$\delta_{II} = v_{A \text{ durch } v} = \left(7.5 \cdot 10^{-5} + \frac{0.0045}{EA} \right) \frac{mm}{N}$$

$$-2 + 400 A_{BE} \left(7.5 \cdot 10^{-5} + \frac{0.0045}{EA} \right) = 3$$

$$A_{BE} = 107 \text{ mm}^2$$