

$$X_{cu} = X_c + k_u \cdot \sin \theta_c$$

$$Y_{cu} = Y_c - k_u \cdot (\cos \theta_c + \sin \theta_c \cdot \tan \theta_c)$$

8921
945

$$X_c = 30m \Rightarrow Y_c = \frac{13}{94500} \cdot \left(\frac{0,05}{12} \cdot \bar{X}_c^4 - 0,5 \cdot \bar{X}_c^3 - 40 \cdot \bar{X}_c^2 + 3820,83 \bar{X}_c \right) = \frac{1781}{189}$$

$$\tan \theta_c = \bar{Y}' = \frac{1}{94500} \cdot \left(\frac{0,65}{3} \bar{X}^3 - 19,5 \cdot \bar{X}^2 - 1040 \bar{X} + 63170,83 \right)$$

$$\tan \theta_c = \bar{Y}'_c = 0,214506$$

$$\Rightarrow \sin \theta_c = 0,209735$$

$$\cos \theta_c = 0,977758$$

$$Y_{cu} = 8,5929m$$

$$X_{cu} = 30,1728m$$

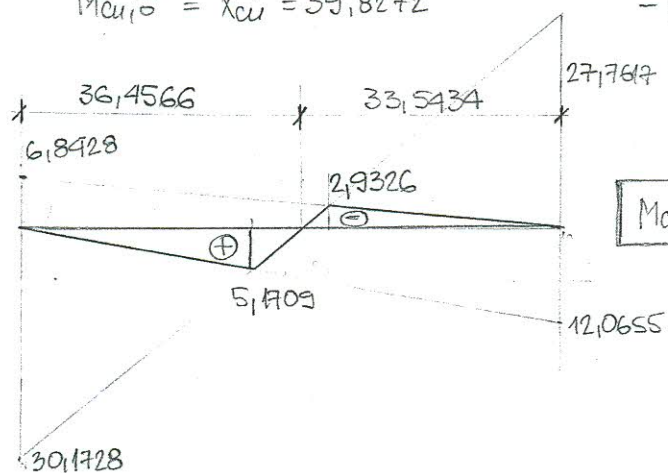
$$M_{cu} = M_{cu,0} - H \cdot Y_{cu}$$

$$M_{cu,0}^{(A)} = X_{cu} = 30,1728$$

$$-Y_{cu} \cdot H^{(A)} = -8,5929 \cdot \frac{40,7}{65} = -37,0156$$

$$M_{cu,0}^{(B)} = X_{cu}' = 39,8272$$

$$-Y_{cu} \cdot H^{(B)} = -8,5929 \cdot \frac{30,7}{65} = -27,7617$$



$$F^+ = \frac{1}{2} \cdot 5,1703 \cdot 36,4566 = 94,2567$$

$$F^- = \frac{1}{2} \cdot 2,9326 \cdot 33,5434 = 49,1847$$