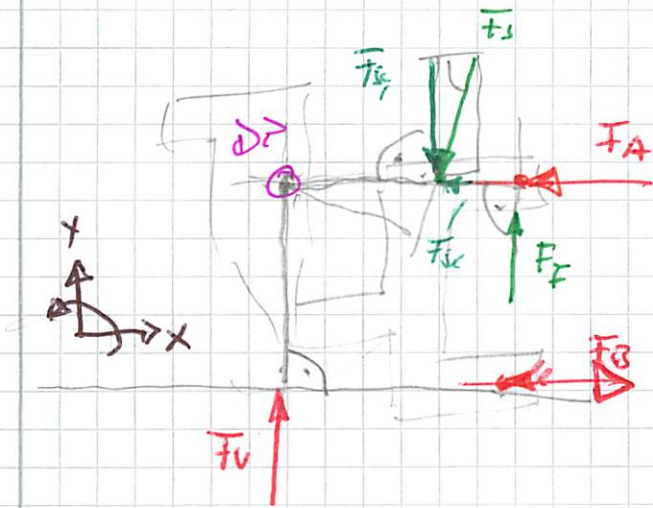


1.2 LS Pos 2 (u) + Bohreranschein



$$F_{sy} = F_s \cdot \sin \gamma$$

$$F_{sx} = F_s \cdot \cos \gamma$$

$$\sum \overset{\curvearrowright}{M}_{DP} = 0 = -F_{sy} \cdot (l_5 - l_4) + F_F \cdot l_5 + F_B \cdot l_3$$

$$F_B = \frac{F_s \cdot \sin \gamma \cdot (l_5 - l_4) - F_F \cdot l_5}{l_3}$$

$$= \frac{450\text{N} \cdot \sin 85^\circ \cdot (150 - 50)\text{mm} - 80\text{N} \cdot 150\text{mm}}{140\text{mm}}$$

$$= 234,5\text{N}$$

$$\sum F_x = 0 \Rightarrow F_{sx} - F_A + F_B$$

$$F_A = -F_s \cdot \cos \gamma + F_B$$

$$= -450\text{N} \cdot \cos 85^\circ + 234,5\text{N}$$

$$= -273,7\text{N} \quad 195,3\text{N}$$

$$\sum F_y = 0 = F_V - F_{sy} + F_F$$

$$F_V = F_s \cdot \sin \gamma - F_F$$

$$= 450\text{N} \cdot \sin 85^\circ - 80\text{N}$$

$$= 368\text{N}$$

Fb. 18.06. 11.10

HA 10 + 11 Freimani

2 + 3 Rechner ohne Kippe

T: Mi 17.06. 24.00