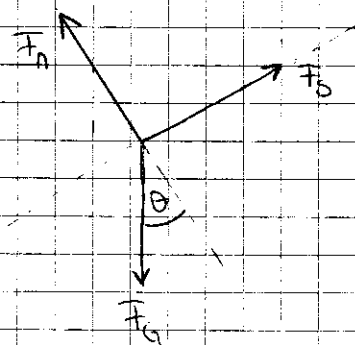
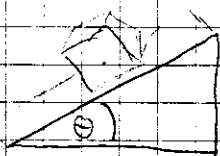




Allgemein: $\vec{F}_i = m \cdot a$

$$\vec{F}_T = m \cdot a = F_T - m \cdot g \cdot \sin \theta \quad | \cdot \frac{1}{m}$$

$$a = \frac{F_T - m \cdot g \cdot \sin \theta}{m}$$

$$a \stackrel{!}{=} 0 : 0 = \frac{F_T - m \cdot g \cdot \sin \theta}{m} \quad | \cdot m \quad | + m \cdot g \cdot \sin \theta \quad | \cdot \frac{1}{m \cdot g}$$

$$\sin \theta = \frac{F_T}{m \cdot g}$$

Ansatz 1

Allgemein: $F_{HR} = M_H \cdot F_T$
 $= M_H \cdot (F_T - m \cdot g \cdot \sin \theta)$
 $= M_H F_T - m \cdot g \cdot \sin \theta$

Ansatz 2

$$F_{HR} = M_H \cdot F_T$$

$$= M_H \cdot m \cdot a \cdot \sin \theta$$

Ansatz 3