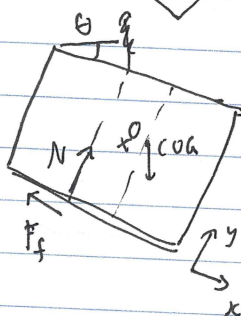
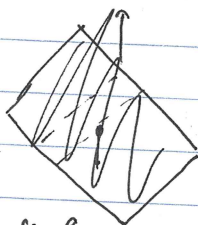


μ_s ~~is~~ ~~the~~

Moment about 0.1



$$\Sigma F_x: N \sin \theta - F_f \cos \theta = m a_x$$

$$\Sigma F_y: N \cos \theta - mg + F_f \sin \theta = m a_y$$

$$\Sigma M_o:$$

x

$$\Sigma F_x: \cancel{F_f} \cancel{= m a_x} \quad m g \sin \theta - \mu_s N = m a_x$$

$$\Sigma F_y: N - m g \cos \theta = m a_y = 0 \quad a_y = 0$$

$$N = m g \cos \theta$$

$a_x > 0$ slipping ~~not~~

$$m g \sin \theta - \mu_s m g \cos \theta \neq m a_x \geq 0$$

$$\sin \theta > \mu_s \cos \theta$$

$$\tan \theta > \mu_s$$

$$\tan \theta > \mu_s$$

$$\tan \theta > \mu_s$$