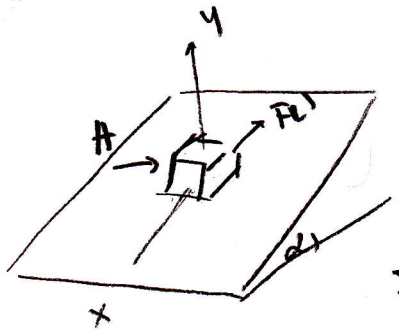

x) $mg\sin\alpha - Fe' = 0$

z) $H - Fn'' = 0$

y) $N = mg\cos\theta$

¿ Fn' ?

x) $mg\sin\alpha = Fe'$ | $()^2$

z) $H = Fe''$ | $()^{2+}$

$Fn = \sqrt{Fn'^2 + Fn''^2}$

$(mg\sin\alpha)^2 + H^2 = Fn^2$ $\quad Fn = \mu \cdot N$

$(mg\sin\alpha)^2 + H^2 = (\mu \cdot mg\cos\theta)^2$

$H = \sqrt{(\mu mg\cos\theta)^2 - (mg\sin\alpha)^2}$

$H = \sqrt{(mg)^2(\mu^2\cos^2\theta - \sin^2\theta)}$

$H = mg\sqrt{\mu^2\cos^2\theta - \sin^2\theta}$ $\quad \mu = 2\operatorname{tg}\alpha$

$H = mg\sqrt{4\sin^2\alpha - \sin^2\alpha} = \sqrt{3}\, mg\sin\alpha$ ///