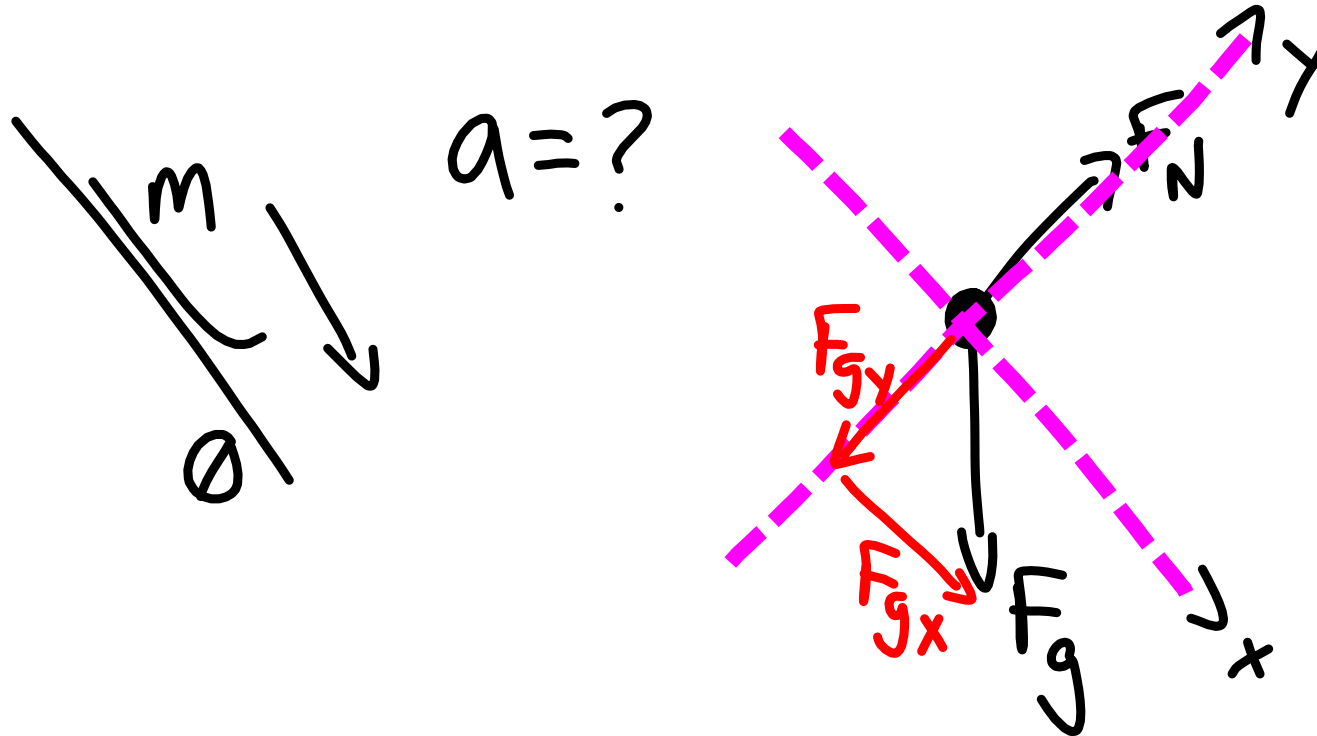
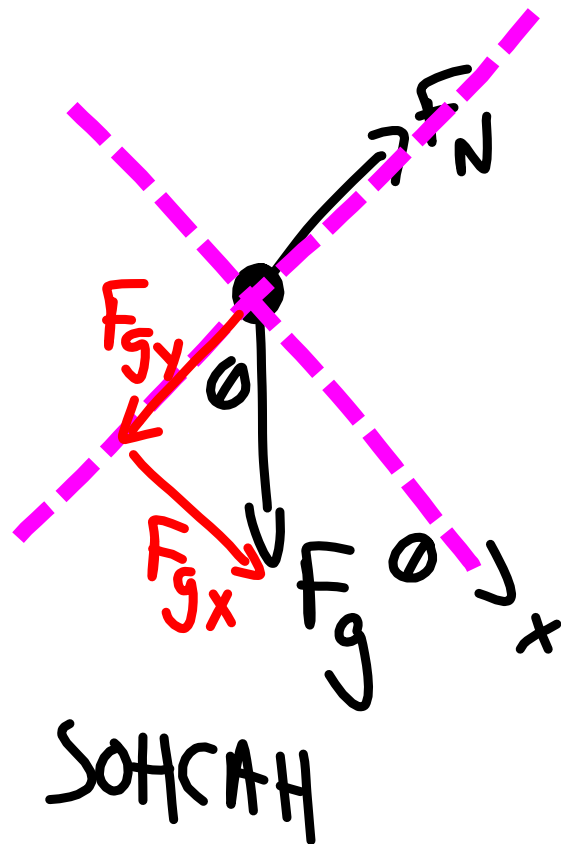






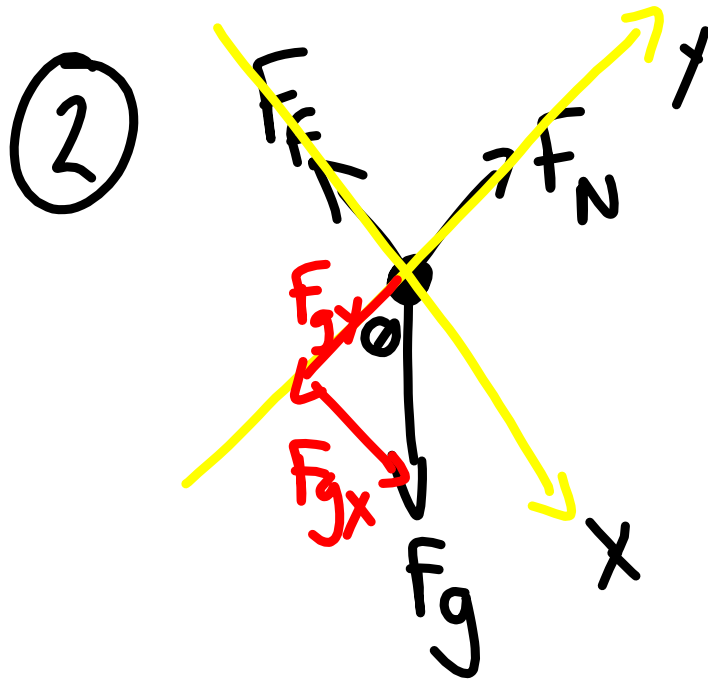
$$\sum \vec{F}_y = F_N - F_{gy} = 0$$

$$F_N = F_{gy}$$

$$\sum \vec{F}_x = F_{gx} = ma$$

~~$$mg \sin \theta = ma$$~~

$$g \sin \theta = a$$



$$\begin{aligned}\sum \vec{F}_y &= F_N - F_{gy} = 0 \\ F_N &= F_{gy} \\ F_N &= F_g \cos \theta\end{aligned}$$

$$\sum \vec{F}_x = F_{gx} - F_F = ma$$

$$mg \sin \theta - \mu F_N = ma$$

$$mg \sin \theta - \mu F_g \cos \theta = ma$$

~~$$mg \sin \theta - \mu mg \cos \theta = ma$$~~

$$g \sin \theta - \mu g \cos \theta = a$$

$$g(\sin \theta - \mu \cos \theta) = a$$