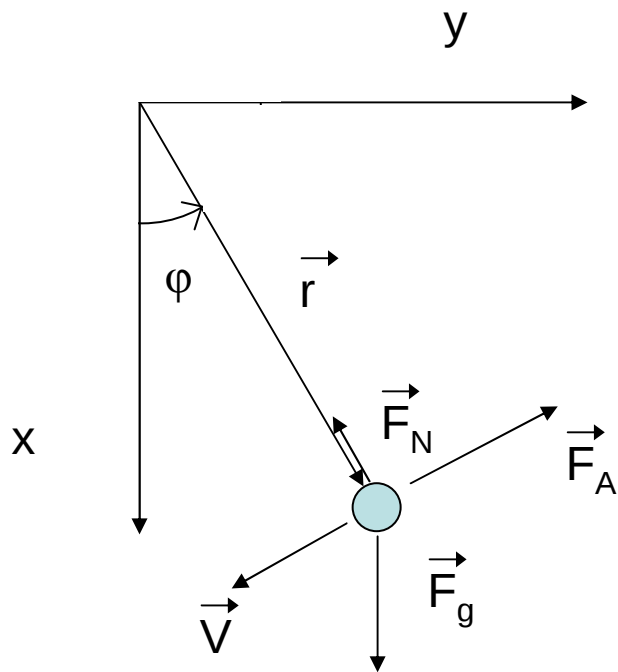




$$\frac{d\vec{L}}{dt} = \vec{\tau}$$

$$\vec{L} = m\vec{r} \wedge \vec{v}$$

$$\vec{\tau} = \vec{r} \wedge \vec{F}$$

$$\ddot{\varphi} + \frac{g}{r} \sin(\varphi) = 0$$

$$\ddot{\varphi} + \frac{g}{r} \varphi = 0$$