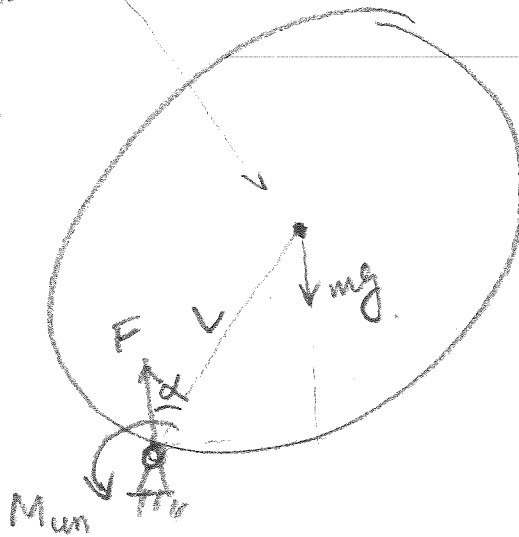


Center of gravity



constant

$$\Sigma F = 0 \rightarrow F - mg = 0 \rightarrow F = mg$$

$$\Sigma M = 0 \rightarrow M_{un} - mg \cdot L \sin \alpha = 0$$

$$M_{un} = mg \cdot L \cdot \sin \alpha$$

change with α