

# Engineering Mechanics Statics

## I. Basic Principles

### 1.) Forces in equilibrium

$$\begin{aligned}\sum F_x &= 0 \\ \sum F_y &= 0 \\ \sum M &= 0\end{aligned}$$



### 2.) Forces in equilibrium from a closed polygon when connected tail of one to head of another



### 3.) Tension on continuous cable running around a frictionless pulley is constant.



# Lecture Notes Engineering Mechanics Dynamics

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