

## ENGINEERING MECHANICS

### STATICS

In statics we consider the effects and distribution of forces on rigid bodies which are and remain at rest.

Formulas:

**Force Components:**

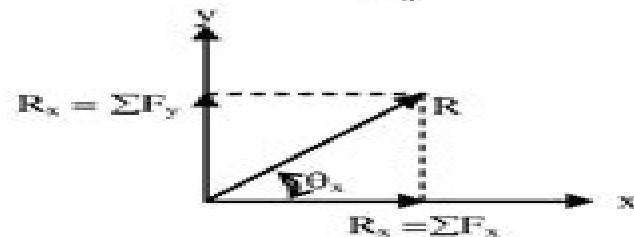
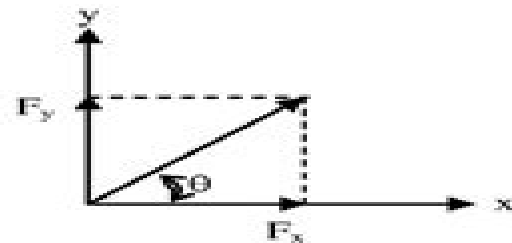
$$F_x = F \cos \theta$$

$$F_y = F \sin \theta$$

**Resultant R:**

$$R = \sqrt{(\sum F_x)^2 + (\sum F_y)^2}$$

$$\theta_x = \tan^{-1} \left| \frac{\sum F_y}{\sum F_x} \right|$$



**Conditions of Equilibrium**

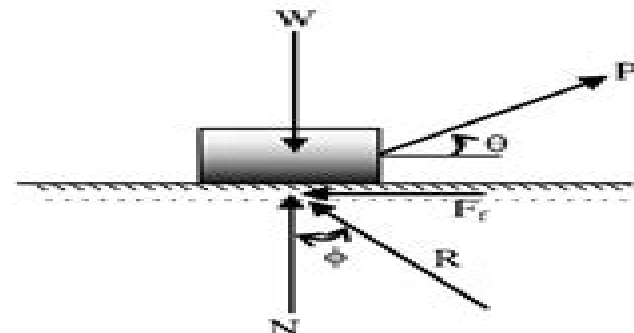
$$R = 0 ; \sum F_x = 0, \sum F_y = 0 , \sum M_o = 0$$

**Friction:**

**For Blocks and Wedges:**

$$\tan \theta = \mu \frac{F_f}{N}$$

where:  $F_f$  – frictional force  
 $\phi$  – angle of friction  
 $N$  – normal force  
 $R$  – Resultant of  $F_f$  and  $N$   
 $\mu$  – coefficient of friction  
 $\mu_s$  – coefficient of static friction  
 $\mu_k$  – coefficient of kinetic friction



Note: for minimum value of P,  $\theta = \phi$

# Answer Key Engineering Mechanics

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