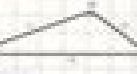



# Engineering Mechanics


## Your Ultimate Cheat Sheet

### Statics

**Resultant**  
  
 $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$   
 $\cos B = \frac{a^2 + c^2 - b^2}{2ac}$   
 $\cos C = \frac{a^2 + b^2 - c^2}{2ab}$   
 $a^2 = b^2 + c^2 - 2bc \cos A$   
 $b^2 = a^2 + c^2 - 2ac \cos B$   
 $c^2 = a^2 + b^2 - 2ab \cos C$   
 $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

**Area of Triangle**  
  
 $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}ab \sin C$   
 $A = \frac{1}{2}bc \sin A$   
 $A = \frac{1}{2}ac \sin B$


**Centroid**  
  
 $G = \frac{1}{3}h$   
 $G = \frac{1}{3}b$   
 $G = \frac{1}{3}c$

**Centroid of a Circle**  
  
 $G = \frac{1}{2}r$   
 $G = \frac{1}{2}d$

### Dynamics

**KINEMATICS**

LINEAR	ANGULAR
$s = vt$	$\theta = \omega t$
$v = u + at$	$\omega = \omega_0 + \alpha t$
$v^2 = u^2 + 2as$	$\omega^2 = \omega_0^2 + 2\alpha\theta$
$s = ut + \frac{1}{2}at^2$	$\theta = \omega_0 t + \frac{1}{2}\alpha t^2$






**Projectile**  
  
 $s = \frac{1}{2}gt^2$   
 $v = gt$   
 $v^2 = 2gs$

**Work-Energy**  
 $W = F \cdot s$   
 $E = \frac{1}{2}mv^2$   
 $E = mgh$

**Impulse-Momentum**  
 $J = F \cdot t$   
 $p = mv$   
 $\Delta p = \int F dt$   
 $F = \frac{dp}{dt}$

**Collisions**  
**Elastic:**  $v_1 + v_2 = u_1 + u_2$   
**Inelastic:**  $v_1 + v_2 = u_1 + u_2$   
**Perfectly Inelastic:**  $v_1 + v_2 = u_1 + u_2$

### Rigid Bodies

Shape	Centroid	Diagram
Rectangle	$G = \frac{1}{2}b$ $G = \frac{1}{2}h$	
Circle	$G = \frac{1}{2}r$	
Triangle	$G = \frac{1}{3}h$ $G = \frac{1}{3}b$	
Parabola	$G = \frac{1}{2}b$ $G = \frac{1}{2}h$	
Quarter Circle	$G = \frac{1}{2}r$ $G = \frac{1}{2}r$	

# Diesel Mechanics Study Guide

**N Noddings**



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