Average velocity $\bar{v} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_i}{t_f - t_i}$
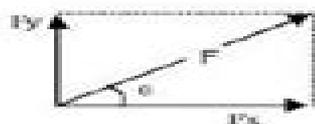
Average acceleration =

$\bar{a} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$

$v = u + at$ (for constant acceleration, a)

$v^2 = u^2 + 2as$ (for constant acceleration, a)

$s = ut + \frac{1}{2}at^2$ (for constant acceleration, a)

$F = \sqrt{F_x^2 + F_y^2}$

$\tan \theta = \frac{F_x}{F_y}$

$F_{net} = ma$

$F_k = \mu_k R$

$F_s \le \mu_s R$

$W = F \cos \theta * s$

$K = \frac{1}{2} m v^2$

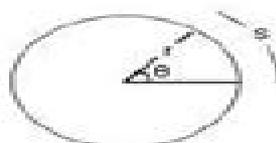$W = K_f - K_i$

Gravitational Potential Energy = mgh

Potential energy stored in spring = $\frac{1}{2} kx^2$

$P = \frac{W}{t}$

$p = m v$

$F = \frac{\Delta p}{\Delta t}$

$I = F \Delta t = \Delta p$

$s = r \theta$

θ in deg. $= \frac{180}{\pi}$ (θ in rad)

$v_t = r\omega$

$\omega = \frac{d\theta}{dt}$

$\alpha = \frac{d^2\theta}{dt^2}$

$a_t = r \alpha$

$\omega = \omega_o + \alpha t$

$\omega^2 = \omega_o^2 + 2\alpha\theta$

$\theta = \omega_o t + \frac{1}{2} \alpha t^2$

$F(c.p) = \frac{mv_t^2}{r}$

$a(c.p) = \frac{v_t^2}{r}$

$g(r) = G \frac{M}{r^2}$

$F_g = G \frac{m_1 m_2}{r^2}$

$\frac{T^2}{r^3} = $ Constant

$\tau = r \times F = r F \sin \theta$

$\tau = I\alpha$ (Analogous to F = ma)

$I = \sum mr^2$

Rotational KE = $\frac{1}{2} I \omega^2$

$L = I \omega$ (Analogous to p = mv)

$I_1 \omega_1 = I_2 \omega_2$ for $\tau_{net} = 0$

a = acceleration [ms⁻²]
a(c.p) = centripetal acceleration [ms⁻²]
$\bar{a}$ = Average acceleration [ms⁻²]
a_t = tangential acceleration [ms⁻²]
F = force [N]
F(c.p) = centripetal force [N]
F_g = gravitational force [N]
F_k = kinetic friction [N]
Fs = static friction [N]
g = acceleration of gravity = 9.8 ms⁻²

G = gravitational constant = [Nm²kg⁻²]
h = height [m]
I = impulse [kg ms⁻¹]
k = spring constant [Nm⁻¹]
K = kinetic energy [J]
L = angular momentum [m²kgs⁻¹]
m = mass [kg]
M = mass [kg]
p = linear momentum [kgms⁻¹]
P = Power
PE = potential energy = [J]
r = radius [m]
R = Normal force (or Reaction force) [N]
s = distance or arc length [m]
t = time [s]
T = period [s]
u = initial velocity [ms⁻¹]
v = velocity [ms⁻¹]
v_t = tangential velocity [ms⁻¹]
$\bar{v}$ = Average velocity [ms⁻¹]
x = spring extension [m]
W = work [J]

α = angular acceleration [s⁻²]
μ_k = coefficient of kinetic friction
μ_s = coefficient of static friction
ω = angular velocity [s⁻¹]
ω_o = initial angular velocity [s⁻¹]
Δ = represents change
θ = angular displacement [rad]
τ = torque [mN]

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RC Schank

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1. Understanding the eBook Engineering Mechanics Dynamics Formula Sheet
    - The Rise of Digital Reading Engineering Mechanics Dynamics Formula Sheet
    - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Dynamics Formula Sheet
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Engineering Mechanics Dynamics Formula Sheet
    - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Dynamics Formula Sheet
    - Personalized Recommendations
    - Engineering Mechanics Dynamics Formula Sheet User Reviews and Ratings
    - Engineering Mechanics Dynamics Formula Sheet and Bestseller Lists
5. Accessing Engineering Mechanics Dynamics Formula Sheet Free and Paid eBooks
    - Engineering Mechanics Dynamics Formula Sheet Public Domain eBooks
    - Engineering Mechanics Dynamics Formula Sheet eBook Subscription Services
    - Engineering Mechanics Dynamics Formula Sheet Budget-Friendly Options
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