

PHYSICS 211 FORMULAS

displacement: $\Delta \vec{r} = \vec{r}_f - \vec{r}_i$

avg velocity: $\vec{v}_{avg} = \frac{\Delta \vec{r}}{\Delta t}$

avg acceleration: $\vec{a}_{avg} = \frac{\Delta \vec{v}}{\Delta t}$

uniform motion: $S_f = S_i + v_i \Delta t$

instantaneous velocity: $v_s = \lim_{\Delta t \rightarrow 0} \frac{\Delta s}{\Delta t} = \frac{ds}{dt}$

v_s = Slope of position vs t graph at time t

$S_f = S_i +$ area under the velocity curve v_s between t_i and t_f

a_{avg} = slope of v vs t graph

$v_{fs} = v_{is} + a_s \Delta t$

Three Kinematic Equations

$v_{fs} = v_{is} + a_s \Delta t$

$S_f = S_i + v_{is} \Delta t + \frac{1}{2} a_s (\Delta t)^2$

$v_{fs}^2 = v_{is}^2 + 2 a_s \Delta s$

$a_y = \text{acceleration} = -g = -9.8 \text{ m/s}^2$

$a_s = \pm g \sin \theta$

$a_s = \frac{dv_s}{dt}$ = slope of the v_s vs t graph at time t

$v_{fs} = v_{is} +$ area under acceleration curve a_s between t_i and t_f

$\vec{C} = \vec{A} + \vec{B}$

$\vec{C}_{net} = \vec{C}_1 + \vec{C}_2 + \vec{C}_3 + \vec{C}_4$

$\vec{A} = A_x \hat{i} + A_y \hat{j}$

$\hat{i} \equiv (1, \text{positive } x \text{ direction})$

$\hat{j} \equiv (1, \text{positive } y \text{ direction})$

$\vec{A} = \vec{A}_x + \vec{A}_y = A_x \hat{i} + A_y \hat{j}$

$v_x = v \cos \theta$ $v_y = v \sin \theta$

$v = \sqrt{v_x^2 + v_y^2}$

constant acceleration

$x_f = x_i + v_{ix} \Delta t + \frac{1}{2} a_x (\Delta t)^2$

$v_{fx} = v_{ix} + a_x \Delta t$

$y_f = y_i + v_{iy} \Delta t + \frac{1}{2} a_y (\Delta t)^2$

$v_{fy} = v_{iy} + a_y \Delta t$

rotational motion: $\vec{v}_{CB} = \vec{v}_{CA} + \vec{v}_{AB}$

$s = r \theta$

avg angular velocity = $\Delta \theta / \Delta t$

$\omega = \lim_{\Delta t \rightarrow 0} \frac{\Delta \theta}{\Delta t} = \frac{d\theta}{dt}$ (angular velocity)

$v = \frac{1 \text{ circumference}}{1 \text{ period}} = \frac{2\pi r}{T}$

ω = slope of θ vs t graph at time t

$\theta_f = \theta_i + \omega \Delta t$

$|\omega| = \frac{2\pi \text{ rad}}{T}$

$v_f = \omega r$ (ω is in rad/s)

$\vec{a} = \left(\frac{v^2}{r} \right) \hat{r}$ (toward center of circle) → centripetal acceleration

$\alpha \equiv \frac{d\omega}{dt}$ (angular acceleration)

α = slope of ω vs t graph

$a = \sqrt{a_r^2 + a_t^2}$

$S_f = S_i + v_i \Delta t + \frac{1}{2} a_t (\Delta t)^2$

$v_{ft} = v_{is} + a_t \Delta t$

$\Delta \theta = \alpha \Delta t$

$\omega_f = \omega_i + \alpha \Delta t$

$\theta_f = \theta_i + \omega_i \Delta t + \frac{1}{2} \alpha (\Delta t)^2$

$\omega_f^2 = \omega_i^2 + 2\alpha \Delta \theta$

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