

PH2100 Formula Sheet

Motion in One Dimension

$$\text{average speed} = \frac{\text{total distance}}{\text{total time}}$$

$$\Delta x = x_f - x_i$$

$$\bar{v}_x = \frac{\Delta x}{\Delta t}$$

$$v_x = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t} = \frac{dx}{dt}$$

$$\bar{a}_x = \frac{\Delta v_x}{\Delta t}$$

$$a_x = \lim_{\Delta t \rightarrow 0} \frac{\Delta v_x}{\Delta t} = \frac{dv_x}{dt}$$

$$v_{xf} = v_{xi} + a_x t$$

$$x_f - x_i = v_{xi} t + \frac{1}{2} a_x t^2$$

$$x_f - x_i = \bar{v}_x t = \frac{1}{2} (v_{xi} + v_{xf}) t$$

$$v_{xf}^2 = v_{xi}^2 + 2a_x (x_f - x_i)$$

Vectors

$$A_x = A \cos \theta$$

$$A_y = A \sin \theta$$

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

$$A = \sqrt{A_x^2 + A_y^2}$$

$$\theta = \tan^{-1} \left(\frac{A_y}{A_x} \right)$$

Motion in Two Dimensions

$$\vec{r} = x\hat{i} + y\hat{j}$$

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

$$\bar{\vec{v}} = \frac{\Delta \vec{r}}{\Delta t}$$

$$\vec{v} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{r}}{\Delta t} = \frac{d\vec{r}}{dt}$$

$$\vec{v} = \frac{dx}{dt} \hat{i} + \frac{dy}{dt} \hat{j}$$

$$\bar{\vec{a}} = \frac{\Delta \vec{v}}{\Delta t}$$

$$\vec{a} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{v}}{\Delta t} = \frac{d\vec{v}}{dt}$$

$$\vec{v}_f = \vec{v}_i + \vec{a}t$$

$$\vec{r}_f = \vec{r}_i + \vec{v}_i t + \frac{1}{2} \vec{a} t^2$$

$$y = (\tan \theta_i) x - \left(\frac{g}{2v_i^2 \cos^2 \theta_i} \right) x^2$$

$$h = \frac{v_i^2 \sin^2 \theta_i}{2g} \quad R = \frac{v_i^2 \sin 2\theta_i}{g}$$

$$a_r = \frac{v^2}{r}, \quad a_t = \frac{dv}{dt}$$

$$\vec{a} = \frac{d|\vec{v}|}{dt} \hat{\theta} - \frac{v^2}{r} \hat{r}$$

$$\vec{v}' = \vec{v} - \vec{v}_0$$

$$\vec{a}' = \vec{a}$$

The Laws of Motion

$$\sum \vec{F} = m\vec{a}$$

$$\vec{F}_{12} = -\vec{F}_{21}$$

$$\vec{F}_g = m\vec{g}$$

$$f_k = \mu_k n$$

$$f_s \leq \mu_s n$$

$$F_{spring} = -kx$$

Circular Motion

$$\sum F_r = ma_r = \frac{mv^2}{r}$$

Work and Kinetic Energy

$$W = Fd \cos \theta$$

$$\vec{A} \cdot \vec{B} = AB \cos \theta = A_x B_x + A_y B_y + A_z B_z$$

$$W = \int_{x_i}^{x_f} F_x dx$$

$$K = \frac{1}{2} mv^2$$

$$\sum W = \Delta K$$

$$K_i + \sum W_{other} - f_k d = K_f$$

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

$$P = \lim_{\Delta t \rightarrow 0} \frac{W}{\Delta t} = \frac{dW}{dt} = \vec{F} \cdot \vec{v}$$

Potential Energy and Energy Conservation

$$\Delta U = U_f - U_i = - \int_{x_i}^{x_f} F_x dx$$

$$U_g = mgy$$

$$U_s = \frac{1}{2} kx^2$$

$$E = K + U$$

$$K_i + \sum U_i = K_f + \sum U_f$$

$$W_{app} = \Delta K + \Delta U$$

$$F_x = - \frac{dU}{dx}$$

Linear Momentum and Collisions

$$\vec{p} = m\vec{v}$$

$$\vec{p}_{1i} + \vec{p}_{2i} = \vec{p}_{1f} + \vec{p}_{2f}$$

$$\vec{I} = \int_{x_i}^{x_f} \vec{F} dt = \Delta \vec{p}$$

$$\bar{\vec{F}}_{avg} = \frac{\vec{I}}{\Delta t} = \frac{\Delta \vec{p}}{\Delta t}$$

$$v_{1f} = \left(\frac{m_1 - m_2}{m_1 + m_2} \right) v_{1i} + \left(\frac{2m_2}{m_1 + m_2} \right) v_{2i}$$

$$v_{2f} = \left(\frac{2m_1}{m_1 + m_2} \right) v_{1i} + \left(\frac{m_2 - m_1}{m_1 + m_2} \right) v_{2i}$$

$$\vec{r}_{CM} = \frac{\sum m_i \vec{r}_i}{M}$$

$$\vec{v}_{CM} = \frac{d\vec{r}_{CM}}{dt} = \frac{\sum m_i \vec{v}_i}{M}$$

$$\vec{a}_{CM} = \frac{d\vec{v}_{CM}}{dt} = \frac{\sum m_i \vec{a}_i}{M}$$

$$\sum \vec{F}_{ext} = M\vec{a}_{CM} = \frac{d\vec{p}_{tot}}{dt}$$

Rotation About a Fixed Axis

$$s = r\theta$$

$$\bar{\omega} = \frac{\Delta \theta}{\Delta t}$$

$$\omega = \lim_{\Delta t \rightarrow 0} \frac{\Delta \theta}{\Delta t} = \frac{d\theta}{dt}$$

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