

Physic 1201
FINAL EXAM FORMULA SHEET

Vectors

$$\text{magnitude } A = A = |\vec{A}|$$

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

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

$$\vec{A} = \vec{A}_x + \vec{A}_y$$

$$A_x = A \cos \theta$$

$$A_y = A \sin \theta$$

$$\tan \theta = \frac{A_y}{A_x}$$

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

$$R_x = A_x + B_x$$

$$R_y = A_y + B_y$$

$$\vec{A} \cdot \vec{B} = AB \cos \theta_{AB}$$

Newton's Laws

$$1^{\text{st}}: \sum \vec{F} = 0$$

$$2^{\text{nd}}: \sum \vec{F} = m\vec{a}$$

$$3^{\text{rd}}: \vec{F}_{12} = -\vec{F}_{21}$$

$$\sum F_x = ma_x$$

$$\sum F_y = ma_y$$

$$\sum F_{\perp} = ma_{\perp} = m \frac{v^2}{R}$$

$$\vec{w} = m\vec{g}$$

Kinematics – 1 dimension

$$v_{ave} = \frac{x_2 - x_1}{t_2 - t_1} = \frac{\Delta x}{\Delta t}$$

$$v = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t}$$

$$a_{ave} = \frac{v_2 - v_1}{t_2 - t_1} = \frac{\Delta v}{\Delta t}$$

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

$$v = v_0 + at$$

$$x = x_0 + v_0 t + \frac{1}{2} at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

$$x - x_0 = \frac{v_0 + v}{2} t$$

Constants and Math

$$g = 9.8 (m/s^2)$$

$$G = 6.67 \times 10^{-11} (Nm^2/kg^2)$$

$$R = 8.314 (J \cdot mol^{-1} \cdot K^{-1})$$

$$\sigma = 5.7 \times 10^{-8} (W \cdot m^{-2} \cdot K^{-4})$$

$$ax^2 + bx + c = 0$$

$$\Rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sin = \text{opp/hyp}$$

$$\cos = \text{adj/hyp}$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

Kinematics – 2 dimensions

$$v_{ave} = \frac{\Delta \vec{r}}{\Delta t}$$

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

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

$$v_y = \lim_{\Delta t \rightarrow 0} \frac{\Delta y}{\Delta t}$$

$$\vec{a}_{ave} = \frac{\Delta \vec{v}}{\Delta t}$$

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

$$\vec{a}_x = \lim_{\Delta t \rightarrow 0} \frac{\Delta v_x}{\Delta t}$$

$$\vec{a}_y = \lim_{\Delta t \rightarrow 0} \frac{\Delta v_y}{\Delta t}$$

$$a_{\perp} = \frac{v^2}{R}$$

$$v = \frac{2\pi R}{\tau}$$

Forces

$$F_k = \mu_k N$$

$$F_s \leq \mu_s N$$

$$F_{spring} = -kx$$

$$w = mg$$

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

$$g = \frac{GM_E}{R_E^2}$$

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