

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

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

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

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

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

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

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

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

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

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

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

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

$$F_k = \mu_k N$$

$$F_s \leq \mu_s N$$

$$F_{spring} = -kx$$

$$w = mg$$

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

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

General Physics 1 Formula Sheet

LL Leslie



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Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test's actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

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