Physics Final Exam Cheat Sheet

Physics 111 General Physics I
Final Exam Formula Sheet

$speed_{ave}$ = distance/ Δt

Linear Motion (Constant a):

$v_{ave} = \Delta x / \Delta t = (v_i + v_f) / 2$
$a_{ave} = \Delta v / \Delta t$
$v = v_i + a\,t$
$v_f^2 - v_i^2 = 2\,a\,\Delta x$
$\Delta x = v_{ave}\,t = (v_i + v_f)\,t\,/2$
$\Delta x = v_i\,t + \frac{1}{2}\,a\,t^2$
$\mathbf{F}_{net} = m\mathbf{a}$

Uniform Circular Motion:

$a_{cp} = v^2 / R = \omega^2 / R$
$F_{cp} = m\,v^2 / R =$ [redacted]

Forces:

$\mathbf{F}_{net} = m\mathbf{a}$
$f_k = \mu_k\,N$
$f_s \leq \mu_s\,N$
$\mathbf{F}_{spring} = -\,k\,\Delta x$
$\mathbf{F}_g = G m_1 m_2 / r^2$
$G = 6.67 \times 10^{-11}\ N{\cdot}m^2/kg^2$
$g = 9.81\ m/s^2$

Quadratic Formula:

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

Momentum and Impulse:

$\mathbf{p} = m\mathbf{v}$
$\mathbf{I} = \Delta\mathbf{p} = \mathbf{F}_{average}\,t$

If $\mathbf{F}_{external} = 0$, $\mathbf{p}_{system} = \sum m_i\,\mathbf{v}_i$ = constant (collisions)

Linear & Rotational Variables:

$s = R\,\Delta\theta$
$v = R\,\omega$
$a_{tan} = R\,\alpha$

Rotational Motion (Constant α):

$\omega_{ave} = \Delta\theta / \Delta t = (\omega_i + \omega_f) / 2$
$\alpha_{ave} = \Delta\omega / \Delta t$
$\omega = \omega_i + \alpha\,t$
$\omega_f^2 - \omega_i^2 = 2\,\alpha\,\Delta\theta$
$\Delta\theta = \omega_{ave}\,t = (\omega_i + \omega_f)\,t\,/\,2$
$\Delta\theta = \omega_i\,t + \frac{1}{2}\,\alpha\,t^2$
$\tau_{net} = I\,\alpha$

Projectile Motion:

$x = x_0 + v_{0x}\,t$
$y = y_0 + v_{0y}\,t - \frac{1}{2}\,g\,t^2$

Work, Energy and Power:

$K = \frac{1}{2}\,mv^2$
$U_g = mgh$
$U_{spring} = \frac{1}{2}\,k\,\Delta x^2$
$W_{net} = \Delta K = \mathbf{F}_{parallel}\,\mathbf{d} = Fd\cos\theta$
$W_{non\text{-}conservative} = \Delta(K + U) = \Delta E$
$E = K + U$ = constant , if $W_{non\text{-}conservative} = 0$
$P = W / t$

Center of Mass:

$\mathbf{r}_{CoM} = (\sum m_i\,\mathbf{r}_i) / (\sum m_i)$
$\mathbf{v}_{CoM} = (\sum m_i\,\mathbf{v}_i) / (\sum m_i) = \mathbf{p}_{system} / (\sum m_i)$

Angular Momentum:

$L = I\,\omega$
$I_{particles} = \sum m_i\,r_i^2$
$\tau = F\,r_\perp$
$\tau_{net} = \Delta L / \Delta t = I\,\alpha$
If $\tau_{external} = 0$, $L_{system} = \sum I\,\omega$ = constant

constant speed rotation: $T = 2\,\pi\,R/v = 2\pi / \omega$

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Annual Announcement New York Medical College,1894 *Register of Vanderbilt University ... Announcement ...* Vanderbilt University,1917 Educational Systems of Africa Martena Tenney Sasnett,Inez Hopkins Sepmeyer,1967 Monograph outlining the educational system of each African country includes information on primary education secondary education higher education vocational training teacher training technical education etc In respect of examinations certificates and degrees curriculum hours per week for each subject matriculation requirements etc Bibliography pp 1510 to 1550 maps references and statistical tables *Proceedings* ,1903 The Oklahoma Gazette ,1981 **Annual report of the Indiana State Board of Medical Registration and Examination. 1908** ,1909 *Bulletin of the Philadelphia College of Pharmacy and Alumni Report* ,1908 **The Lancet** ,1917 *The Journal of the Florida Medical Association* ,1916 Proceedings included in vols 3 4 7 23 25 **Annual Report of the Indiana State Board of Medical Registration and Examination** Indiana. State Board of Medical Registration and Examination,1908 **Bulletin** Starling-Ohio Medical College, Columbus, Ohio. Department of Medicine, Dentistry and Pharmacy,1913 Annual report of the Indiana State Board of Medical Registration and Examination. 1907 ,1908 **The Register** ,1899 *Cornell University Register and Catalogue* Cornell University,1899 *Register and Catalogue* Cornell University,1899 *Pennsylvania School Journal* ,1924 *Annual report of the Indiana State Board of Medical Registration and Examination. 1905* ,1906 **School of Chiropody** Temple University,1924

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