

Physics 111 General Physics I **Final Exam Formula Sheet**

speed_{ave} = distance / Δt

Linear Motion (Constant a): **Rotational Motion (Constant α):** _____

$v_{ave} = \Delta x / \Delta t = (v_i + v_f) / 2$ $\omega_{ave} = \Delta \theta / \Delta t = (\omega_i + \omega_f) / 2$

$a_{ave} = \Delta v / \Delta t$

$\alpha_{ave} = \Delta \omega / \Delta t$

$v = v_i + a t$ $\omega = \omega_i + \alpha t$

$v_f^2 - v_i^2 = 2 a \Delta x$

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

$\Delta x = v_{ave} t = (v_i + v_f) t / 2$ $\Delta \theta = \omega_{ave} t = (\omega_i + \omega_f) t / 2$

$\Delta x = v_i t + \frac{1}{2} a t^2$ $\Delta \theta = \omega_i t + \frac{1}{2} \alpha t^2$

$F_{net} = ma$

$\tau_{net} = I \alpha$

Uniform Circular Motion:

Projectile Motion:

$a_{cp} = v^2 / R = \omega^2 R$ $x = x_0 + v_{0,x} t$

$F_{cp} = m v^2 / R = m \omega^2 R$ $y = y_0 + v_{0,y} t - \frac{1}{2} g t^2$

Forces: Work, Energy and Power: _____

$F_{net} = ma$ $K = \frac{1}{2} m v^2$

$f_k = \mu_k N$ $U_g = mgh$

$f_s \leq \mu_s N$ $U_{spring} = \frac{1}{2} k \Delta x^2$

$F_{spring} = -k \Delta x$

$W_{net} = \Delta K = F_{parallel} d = Fd \cos \theta$

$F_g = G m_1 m_2 / r^2$ W

$W_{non-conservative} = \Delta(K + U) = \Delta E$

$G = 6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$ $E = K + U = \text{constant}$, if $W_{non-conservative} = 0$

$g = 9.81 \text{ m/s}^2$ $P = W / t$

Quadratic Formula: Center of Mass: _____

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $r_{COM} = (\sum m_i r_i) / (\sum m_i)$

$r_{COM} = (\sum m_i v_i) / (\sum m_i) = p_{system} / (\sum m_i)$

Momentum and Impulse:

Angular

Momentum:

$p = mv$

$L = I \omega$

$I = \Delta p = F_{average} t$ $I_{particles} = \sum m_i v_i$

$\tau = F r_{\perp}$

If $F_{external} = 0$, $p_{system} = \sum m_i v_i = \text{constant}$ $\tau_{net} = \Delta L / \Delta t = I \alpha$

(collisions)

If

$\tau_{external} = 0$, $L_{system} = \sum I \omega = \text{constant}$

Linear & Rotational Variables:

$s = R \Delta \theta$

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

$a_{tan} = R \alpha$

General Physics Final Review

Albert A Gayle



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