

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

speed_{ave} = distance / Δt

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

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

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

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

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

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

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

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

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

$$F_{net} = ma$$

$$\tau_{net} = I \alpha$$

Uniform Circular Motion:

Projectile Motion:

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

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

Forces: Work, Energy and Power: _____

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

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

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

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

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

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

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

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

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

Quadratic Formula: Center of Mass: _____

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

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

Momentum and Impulse:

Angular Momentum:

$$p = mv$$

$$L = I \omega$$

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

$$\tau = F r_{\perp}$$

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

(collisions)

if

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

Linear & Rotational Variables:

$$s = R \Delta \theta$$

$$v = R \omega \quad \text{constant speed rotation: } T = 2 \pi R / v = 2 \pi / \omega$$

$$a_{tan} = R \alpha$$

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O García



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