

# Physics Final Exam Cheat Sheet

## Physics 111 General Physics I Final Exam Formula Sheet

$$\text{speed}_{\text{ave}} = \text{distance} / \Delta t$$

### Linear Motion (Constant a):

$$v_{\text{ave}} = \Delta x / \Delta t = (v_i + v_f) / 2$$

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

$$v = v_i + a t$$

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

$$\Delta x = v_{\text{ave}} t = (v_i + v_f) t / 2$$

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

$$F_{\text{net}} = ma$$

### Uniform Circular Motion:

$$a_{\text{cp}} = v^2 / R = \omega^2 R$$

$$F_{\text{cp}} = m v^2 / R =$$

### Forces:

$$F_{\text{net}} = ma$$

$$f_k = \mu_k N$$

$$f_s \leq \mu_s N$$

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

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

$$G = 6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2 / \text{kg}^2$$

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

### Quadratic Formula:

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

### Momentum and Impulse:

$$\mathbf{p} = m\mathbf{v}$$

$$\mathbf{I} = \Delta \mathbf{p} = \mathbf{F}_{\text{average}} t$$

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

### Linear & Rotational Variables:

$$s = R \Delta \theta$$

$$v = R \omega$$

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

### Rotational Motion (Constant $\alpha$ ):

$$\omega_{\text{ave}} = \Delta \theta / \Delta t = (\omega_i + \omega_f) / 2$$

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

$$\omega = \omega_i + \alpha t$$

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

$$\Delta \theta = \omega_{\text{ave}} t = (\omega_i + \omega_f) t / 2$$

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

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

### Projectile Motion:

$$x = x_0 + v_{0x} t$$

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

### Work, Energy and Power:

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

$$U_g = mgh$$

$$U_{\text{spring}} = \frac{1}{2} k \Delta x^2$$

$$W_{\text{net}} = \Delta K = \mathbf{F}_{\text{parallel}} \cdot \mathbf{d} = F d \cos \theta$$

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

$$E = K + U = \text{constant}, \text{ if } W_{\text{non-conservative}} = 0$$

$$P = W / t$$

### Center of Mass:

$$\mathbf{r}_{\text{CoM}} = (\sum m_i \mathbf{r}_i) / (\sum m_i)$$

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

### Angular Momentum:

$$L = I \omega$$

$$I_{\text{particles}} = \sum m_i r_i^2$$

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

$$\tau_{\text{net}} = \Delta L / \Delta t = I \alpha$$

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

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

# Physics 1 Final Exam Review

**Robert K Kamei**



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