

Reference Guide & Formula Sheet for Physics

Dr. Hoselton & Mr. Price

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#3 Components of a Vector

$$\text{if } V = 34 \text{ m/sec } \angle 48^\circ$$

then

$$V_x = 34 \text{ m/sec} \cdot (\cos 48^\circ); \text{ and } V_y = 34 \text{ m/sec} \cdot (\sin 48^\circ)$$

#4 Weight = $m \cdot g$

$$g = 9.81 \text{ m/sec}^2 \text{ near the surface of the Earth}$$

$$= 9.795 \text{ m/sec}^2 \text{ in Fort Worth, TX}$$

Density = mass / volume

$$\rho = \frac{m}{V} \text{ (unit : kg / m}^3\text{)}$$

#7 Ave speed = distance / time = $v = d/t$

$$\text{Ave velocity} = \text{displacement} / \text{time} = v = d/t$$

$$\text{Ave acceleration} = \text{change in velocity} / \text{time}$$

#8 Friction Force

$$F_f = \mu \cdot F_{\text{norm}}$$

If the object is not moving, you are dealing with static friction and it can have any value from zero up to $\mu_s F_{\text{norm}}$

If the object is sliding, then you are dealing with kinetic friction and it will be constant and equal to $\mu_k F_{\text{norm}}$

#9 Torque

$$\tau = F \cdot L \cdot \sin \theta$$

Where θ is the angle between F and L ; unit: Nm

#11 Newton's Second Law

$$F_{\text{net}} = \Sigma F_{\text{ext}} = m \cdot a$$

#12 Work = $F \cdot D \cdot \cos \theta$

Where D is the distance moved and

θ is the angle between F and the

direction of motion,

unit : J

#16 Power = rate of work done

$$\text{Power} = \frac{\text{Work}}{\text{time}}$$

unit : watt

$$\text{Efficiency} = \text{Work}_{\text{out}} / \text{Energy}_{\text{in}}$$

Mechanical Advantage = force out / force in

$$\text{M.A.} = F_{\text{out}} / F_{\text{in}}$$

#19 Constant-Acceleration Linear Motion

$$v = v_0 + a \cdot t \quad s$$

$$(x - x_0) = v_0 \cdot t + \frac{1}{2} \cdot a \cdot t^2 \quad v$$

$$v^2 = v_0^2 + 2 \cdot a \cdot (x - x_0) \quad t$$

$$(x - x_0) = \frac{1}{2} \cdot (v_0 + v) \cdot t \quad a$$

$$(x - x_0) = v \cdot t - \frac{1}{2} \cdot a \cdot t^2 \quad v_0$$

#20 Heating a Solid, Liquid or Gas

$$Q = m \cdot c \cdot \Delta T \quad (\text{no phase changes!})$$

Q = the heat added

c = specific heat.

ΔT = temperature change, K

#21 Linear Momentum

$$\text{momentum} = p = m \cdot v = \text{mass} \cdot \text{velocity}$$

momentum is conserved in collisions

#23 Center of Mass – point masses on a line

$$x_{\text{cm}} = \Sigma(m x_i) / M_{\text{total}}$$

#25 Angular Speed vs. Linear Speed

$$\text{Linear speed} = v = r \cdot \omega = r \cdot \text{angular speed}$$

#26 Pressure under Water

$$P = \rho \cdot g \cdot h$$

h = depth of water

ρ = density of water

#28 Universal Gravitation

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

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

#29 Mechanical Energy

$$\text{PE}_{\text{grav}} = P = m \cdot g \cdot h$$

$$\text{KE}_{\text{trans}} = K = \frac{1}{2} m v^2$$

#30 Impulse = Change in Momentum

$$F \cdot \Delta t = \Delta(m \cdot v)$$

#31 Snell's Law

$$n_1 \cdot \sin \theta_1 = n_2 \cdot \sin \theta_2$$

Index of Refraction

$$n = c / v$$

c = speed of light = 3 E+8 m/s

#32 Ideal Gas Law

$$P \cdot V = n \cdot R \cdot T$$

n = # of moles of gas

R = gas law constant

$$= 8.31 \text{ J / K mole}$$

#34 Periodic Waves

$$v = f \cdot \lambda$$

$$f = 1 / T$$

T = period of wave

#35 Constant-Acceleration Circular Motion

$$\omega = \omega_0 + \alpha \cdot t \quad \theta$$

$$\theta - \theta_0 = \omega_0 \cdot t + \frac{1}{2} \cdot \alpha \cdot t^2 \quad \omega$$

$$\omega^2 = \omega_0^2 + 2 \cdot \alpha \cdot (\theta - \theta_0) \quad t$$

$$\theta - \theta_0 = \frac{1}{2} \cdot (\omega_0 + \omega) \cdot t \quad \alpha$$

$$\theta - \theta_0 = \omega \cdot t - \frac{1}{2} \cdot \alpha \cdot t^2 \quad \omega_0$$

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