

**CONSTANTS AND CONVERSION FACTORS**

Universal gravitational constant,

$$G = 6.67 \times 10^{-11} \text{ m}^3/(\text{kg} \cdot \text{s}^2) = 6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2/\text{kg}^2$$

1 atmosphere of pressure,

$$1 \text{ atm} = 1.0 \times 10^5 \text{ N/m}^2 = 1.0 \times 10^5 \text{ Pa}$$

Acceleration due to gravity at Earth's surface,

$$g = 9.8 \text{ m/s}^2$$

Magnitude of the gravitational field strength at the

$$\text{Earth's surface, } g = 9.8 \text{ N/kg}$$

**PREFIXES**

Factor	Prefix	Symbol
$10^{12}$	tera	T
$10^9$	giga	G
$10^6$	mega	M
$10^3$	kilo	k
$10^{-2}$	centi	c
$10^{-3}$	milli	m
$10^{-6}$	micro	$\mu$
$10^{-9}$	nano	n
$10^{-12}$	pico	p

**UNIT SYMBOLS**

UNIT SYMBOLS	hertz, joule, kilogram, meter,	Hz J kg m	newton, pascal, second, watt,	N Pa s W
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**VALUES OF TRIGONOMETRIC FUNCTIONS FOR COMMON ANGLES**

$\theta$	$0^\circ$	$30^\circ$	$37^\circ$	$45^\circ$	$53^\circ$	$60^\circ$	$90^\circ$
$\sin \theta$	0	1/2	3/5	$\sqrt{2}/2$	4/5	$\sqrt{3}/2$	1
$\cos \theta$	1	$\sqrt{3}/2$	4/5	$\sqrt{2}/2$	3/5	1/2	0
$\tan \theta$	0	$\sqrt{3}/3$	3/4	1	4/3	$\sqrt{3}$	$\infty$

The following conventions are used in this exam:

- The frame of reference of any problem is assumed to be inertial unless otherwise stated.
- Air resistance is assumed to be negligible unless otherwise stated.
- Springs and strings are assumed to be ideal unless otherwise stated.
- Fluids are assumed to be ideal, and pipes are assumed to be completely filled by fluid, unless otherwise stated.

**GEOMETRY AND TRIGONOMETRY**

Rectangle

$$A = bh$$

Triangle

$$A = \frac{1}{2}bh$$

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$

$$s = r\theta$$

Rectangular Solid

$$V = lwh$$

Cylinder

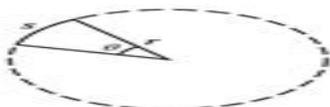
$$V = \pi r^2 \ell$$

$$S = 2\pi r \ell + 2\pi r^2$$

Sphere

$$V = \frac{4}{3}\pi r^3$$

$$S = 4\pi r^2$$



- $A$  = area
- $b$  = base
- $C$  = circumference
- $h$  = height
- $\ell$  = length
- $r$  = radius
- $s$  = arc length
- $S$  = surface area
- $V$  = volume
- $w$  = width
- $\theta$  = angle

Right Triangle

$$a^2 + b^2 = c^2$$

$$\sin \theta = \frac{a}{c}$$

$$\cos \theta = \frac{b}{c}$$

$$\tan \theta = \frac{a}{b}$$



**MECHANICS AND FLUIDS**

$$v_x = v_{x0} + a_x t$$

$$x = x_0 + v_{x0} t + \frac{1}{2} a_x t^2$$

$$v_x^2 = v_{x0}^2 + 2a_x(x - x_0)$$

$$\bar{x}_{cm} = \frac{\sum m_i \bar{x}_i}{\sum m_i}$$

$$\bar{a}_{cm} = \frac{\sum \vec{F}_i}{m_{tot}} = \frac{\vec{F}_{net}}{m_{tot}}$$

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

$$|\vec{F}_f| \leq |\mu \vec{F}_n|$$

$$\vec{F}_s = -k\Delta\vec{x}$$

$$a_c = \frac{v^2}{r}$$

$$K = \frac{1}{2}mv^2$$

$$W = F_s d = F d \cos \theta$$

$$\Delta K = \sum W_i = \sum F_i d_i$$

$$\Delta U_s = \frac{1}{2}k(\Delta x)^2$$

$$U_g = -\frac{Gm_1 m_2}{r}$$

$$\Delta U_g = mg\Delta y$$

$$P_{mech} = \frac{W}{\Delta t} = \frac{\Delta E}{\Delta t}$$

$$P_{net} = \vec{F}_n \cdot \vec{v} = F v \cos \theta$$

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

$$\vec{F}_{net} = \frac{\Delta \vec{p}}{\Delta t} = m \frac{\Delta \vec{v}}{\Delta t} = m\vec{a}$$

$$\vec{J} = \vec{F}_{net} \Delta t = \Delta \vec{p}$$

$$\vec{v}_{cm} = \frac{\sum \vec{p}_i}{\sum m_i} = \frac{\sum m_i \vec{v}_i}{\sum m_i}$$

- $a$  = acceleration
- $d$  = distance
- $E$  = energy
- $F$  = force
- $J$  = impulse
- $k$  = spring constant
- $K$  = kinetic energy
- $m$  = mass
- $p$  = momentum
- $P$  = power
- $r$  = radius, distance, or position
- $t$  = time
- $U$  = potential energy
- $v$  = velocity or speed
- $W$  = work
- $x$  = position
- $y$  = height
- $\theta$  = angle
- $\mu$  = coefficient of friction

- $\omega = \alpha_0 + \alpha t$
- $\theta = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2$
- $\omega^2 = \omega_0^2 + 2\alpha(\theta - \theta_0)$
- $v = r\omega$
- $a_t = r\alpha$
- $\tau = r_\perp F = rF \sin \theta$
- $I = \sum m_i r_i^2$
- $I = I_{cm} + Md^2$
- $\alpha_{cm} = \frac{\sum \tau}{I_{cm}} = \frac{\tau_{net}}{I_{cm}}$
- $K = \frac{1}{2}I\omega^2$
- $W = \tau \Delta \theta$
- $L = I\omega$
- $L = rmv \sin \theta$
- $\Delta L = \tau \Delta t$
- $\Delta x_{cm} = r \Delta \theta$
- $T = \frac{1}{f}$
- $T_s = 2\pi \sqrt{\frac{m}{k}}$
- $T_p = 2\pi \sqrt{\frac{\ell}{g}}$
- $x = A \cos(2\pi ft)$
- $x = A \sin(2\pi ft)$
- $\rho = \frac{m}{V}$
- $P = \frac{F_n}{A}$
- $P = P_0 + \rho gh$
- $P_{comp} = \rho gh$
- $F_b = \rho V g$
- $A_1 v_1 = A_2 v_2$
- $F_1 + \rho g V_1 + \frac{1}{2} \rho v_1^2 = F_2 + \rho g V_2 + \frac{1}{2} \rho v_2^2$

- $a$  = acceleration
- $A$  = amplitude or area
- $d$  = distance
- $f$  = frequency
- $F$  = force
- $h$  = height
- $I$  = rotational inertia
- $k$  = spring constant
- $K$  = kinetic energy
- $\ell$  = length
- $L$  = angular momentum
- $m$  = mass
- $M$  = mass
- $P$  = pressure
- $r$  = radius, distance, or position
- $t$  = time
- $T$  = period
- $v$  = velocity or speed
- $V$  = volume
- $W$  = work
- $x$  = position
- $y$  = vertical position
- $\alpha$  = angular acceleration
- $\theta$  = angle
- $\rho$  = density
- $\tau$  = torque
- $\omega$  = angular speed

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**Dan Fullerton**



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