

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 | μ |
| 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 |
|--------------|---|--------------------|--|-------------------|
|--------------|---|--------------------|--|-------------------|

VALUES OF TRIGONOMETRIC FUNCTIONS FOR COMMON ANGLES

| θ | 0° | 30° | 37° | 45° | 53° | 60° | 90° |
|---------------|-----------|--------------|------------|--------------|------------|--------------|------------|
| $\sin \theta$ | 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 | $\sqrt{3}$ | ∞ |

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

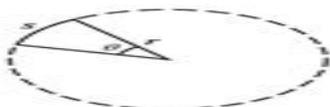
$$V = \pi r^2 \ell$$

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

Sphere

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

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



- A = area
- b = base
- C = circumference
- h = height
- ℓ = length
- r = radius
- s = arc length
- S = surface area
- V = volume
- w = width
- θ = 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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
- θ = angle
- μ = 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
- ℓ = 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
- α = angular acceleration
- θ = angle
- ρ = density
- τ = torque
- ω = angular speed

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