

Physics Formula Sheet

Mechanics

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

$$v = v_0 + at$$

$$v_f^2 - v_i^2 = 2a(x - x_0)$$

$$\vec{a} = \frac{\Sigma \vec{F}}{m} = \frac{\vec{F}_{net}}{m}$$

$$|\vec{F}_{friction}| \leq \mu |\vec{F}_{normal}|$$

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

$$\Delta \vec{p} = \vec{F}\Delta t$$

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

$$\Delta PE = mg\Delta y$$

$$\Delta E = W = Fd\cos\theta$$

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

$$\theta = \theta_0 + \omega_0 t + \frac{1}{2}\alpha t^2$$

$$\omega = \omega_0 + \alpha t$$

$$T = \frac{2\pi}{\omega} = \frac{1}{f}$$

$$v = f\lambda$$

$$x = A\cos(2\pi ft)$$

$$\vec{\alpha} = \frac{\Sigma \vec{\tau}}{I} = \frac{\vec{\tau}_{net}}{I}$$

$$\vec{\tau} = \vec{r} \times \vec{F}$$

$$L = I\omega$$

$$\Delta L = \tau\Delta t$$

$$|\vec{F}_{spring}| = k|\vec{x}|$$

$$PE_{spring} = \frac{1}{2}kx^2$$

$$T_{spring} = 2\pi\sqrt{\frac{m}{k}}$$

$$T_{pendulum} = 2\pi\sqrt{\frac{\ell}{g}}$$

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

$$|\vec{F}_{gravity}| = m\vec{g}$$

$$PE_{gravity} = -G\frac{m_1 m_2}{r}$$

$$\rho = \frac{m}{V}$$

$$KE = \frac{1}{2}I\omega^2$$

Electricity

$$|\vec{F}_e| = k\left|\frac{q_1 q_2}{r^2}\right|$$

$$\Delta V = IR$$

$$R = \frac{\rho \ell}{A}$$

$$I = \frac{\Delta q}{\Delta t}$$

$$P = I\Delta V$$

$$R_{series} = R_1 + R_2 + \dots + R_n$$

$$\frac{1}{R_{parallel}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}$$

Geometry

Rectangle

$$A = bh$$

Rectangular Solid $V = \ell wh$

Triangle

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

Circle

$$A = \pi r^2$$

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

Sphere

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

$$C = 2\pi r$$

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

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

Trigonometry



$$c^2 = a^2 + b^2 \quad \sin\theta = \frac{a}{c} \quad \cos\theta = \frac{b}{c} \quad \tan\theta = \frac{a}{b}$$

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	1	$\sqrt{3}$	∞

Variables

a = acceleration

A = amplitude

A = Area

b = base length

C = circumference

d = distance

E = energy

f = frequency

F = force

h = height

I = current

I = rotational inertia

KE = kinetic energy

k = spring constant

L = angular momentum

ℓ = length

m = mass

P = power

p = momentum

q = charge

r = radius

R = resistance

S = surface area

T = period

t = time

PE = potential energy

V = electric potential

V = volume

v = velocity

w = width

W = work

x = position

y = height

α = angular acceleration

λ = wavelength

μ = coefficient of friction

v = wave speed

θ = angle

ρ = density

ρ = resistivity

τ = torque

ω = angular speed

Physics 1 Cheat Sheets Equations And Formulas

G Psacharopoulos



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