

Physics Equations Answers Laminate Reference Chart

PHYSICS EQUATIONS & ANSWERS

A. Units for Physical Quantities

Quantity	Symbol	Unit
Length	L	metre (m)
Mass	M	kilogram (kg)
Time	T	second (s)
Temperature	θ	Kelvin (K)
Electric Charge	Q	Coulomb (C)
Magnetic Flux	Φ	weber (Wb)
Energy	E	joule (J)
Force	F	newton (N)
Pressure	p	pascal (Pa)
Power	P	watt (W)
Area	A	square metre (m ²)
Volume	V	cubic metre (m ³)
Speed	v	metre per second (m/s)

B. Fundamental Physical Constants

Constant	Symbol	Value
Speed of light	c	$3.0 \times 10^8 \text{ m/s}$
Planck's constant	h	$6.63 \times 10^{-34} \text{ J s}$
Boltzmann's constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Elementary charge	e	$1.6 \times 10^{-19} \text{ C}$
Permeability of free space	μ_0	$4\pi \times 10^{-7} \text{ T m/A}$
Permittivity of free space	ϵ_0	$8.85 \times 10^{-12} \text{ C}^2/\text{N m}^2$
Gravitational constant	G	$6.67 \times 10^{-11} \text{ N m}^2/\text{kg}^2$

C. Mathematical Concepts

1. Linear Equations

General form: $ax + by = c$

Solving for x : $x = \frac{c - by}{a}$

Solving for y : $y = \frac{c - ax}{b}$

2. Quadratic Equations

General form: $ax^2 + bx + c = 0$

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

3. Systems of Equations

Two equations, two variables:

$$\begin{cases} ax + by = c \\ dx + ey = f \end{cases}$$

Solving for x : $x = \frac{cf - be}{ae - bd}$

Solving for y : $y = \frac{af - cd}{bd - ae}$

4. Trigonometric Identities

Pythagorean identity: $\sin^2 \theta + \cos^2 \theta = 1$

Double angle formulas:

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

$$\cos 2\theta = \cos^2 \theta - \sin^2 \theta$$

5. Calculus

Derivative of x^n : $\frac{d}{dx} x^n = nx^{n-1}$

Integral of x^n : $\int x^n dx = \frac{x^{n+1}}{n+1} + C$

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Reviews

This pdf is wonderful. This can be for anyone who statte there had not been a well worth studying. You are going to like just how the writer write this pdf.

(Mrs. Adriana Schmidt V)

PHYSICS EQUATIONS ANSWERS LAMINATE REFERENCE CHART



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