

# MATH NOTATION CHEAT SHEET

## ARITHMETIC

$$a+b \quad a-b$$

ADDITION SUBTRACTION

$$a \times b \quad a^b \quad a \cdot b$$

VARIOUS FORMS OF MULTIPLICATION

$$a:b \quad a/b \quad a \div b \quad \frac{a}{b}$$

VARIOUS FORMS OF DIVISION

$$5 \text{ mod } 2 = 1 \quad -a$$

REMAINDER OPPOSITE

$$\pm a \quad \mp a \quad 2.14$$

PLUS OR MINUS PLUS OR MINUS DECIMAL POINT

$$a^2 \quad a^3 \quad a^n$$

SQUARED CUBED N-TH POWER

$$\sqrt{a} \quad \sqrt[n]{a} \quad \sqrt[n]{a}$$

SQUARE ROOT N-TH ROOT N-TH ROOT

## EQUALITY SYMBOLS

$$3=1+2 \quad 3 \neq 4 \quad a \equiv b$$

EQUAL NOT EQUAL IDENTICAL

$$a \propto b \quad \sin(0.01) \approx 0.01$$

PROPORTIONAL TO APPROXIMATELY EQUAL TO

## ALGEBRA SYMBOLS

$$5! = 5 \times 4 \times 3 \times 2 \times 1$$

FACTORIAL

$$|-5| = 5 \quad f(x) = 2x^2$$

ABSOLUTE VALUE FUNCTION OF X

$$\Delta x = x_1 - x_0$$

CHANGE IN DIFFERENCE

$$\text{SUM} \rightarrow \sum_{i=1}^5 i^2 = 1^2 + 2^2 + 3^2 + 4^2 + 5^2 = 55$$

START

$$e = 2.71828...$$

EULER'S CONSTANT

$$\text{SERIES PRODUCT} \rightarrow \prod_{i=1}^4 i^2 = 1^2 \times 2^2 \times 3^2 \times 4^2 = 576$$

END

## COMPARISON

$$a < b \quad a > b$$

A LESS THAN B A GREATER THAN B

$$a \leq b \quad a \geq b$$

A LESS THAN OR EQUAL TO B A GREATER THAN OR EQUAL TO B

$$a \ll b \quad a \gg b$$

A MUCH SMALLER THAN B A MUCH LARGER THAN B

## LINEAR ALGEBRA

### VECTORS

$$v, \vec{v}, \vec{v}$$

VECTOR

$$v = (1, 2, 3) \quad w = \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix}$$

ROW VECTOR COLUMN VECTOR

$$v \cdot w \quad (v, w) \quad (v|w)$$

DOT PRODUCT

$$|v| \quad \|v\|$$

LENGTH OF V NORM OF V

### MATRICES

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} \quad 2 \text{ BY } 3 \text{ MATRIX}$$

$$A \cdot B \quad A \circ B \quad A \otimes B$$

PRODUCT HADAMARD PRODUCT KRONECKER PRODUCT

$$A^T \quad A^I \quad A^*$$

TRANSPOSE MATRIX INVERTED MATRIX OR CONJUGATE TRANSPOSE

$$|A| \quad \|A\|$$

DETERMINANT NORM

## ANGLES

$$\pi = 3.14159... \quad 360^\circ = 2\pi \text{ rad}$$

PI RADIANS

## BRACKETS

$$y = [(2x-1)(x+3)]^2$$

PARENTHESES ABSOLUTE VALUE BRACKETS FIRST

## GREEK ALPHABET

$$A \alpha \quad B \beta \quad \Gamma \gamma \quad \Delta \delta \quad E \epsilon \quad Z \zeta$$

ALPHA BETA GAMMA DELTA EPSILON ZETA

$$H \eta \quad \Theta \theta \quad I \iota \quad K \kappa \quad \Lambda \lambda \quad M \mu$$

ETA THETA IOTA KAPPA LAMBDA MU

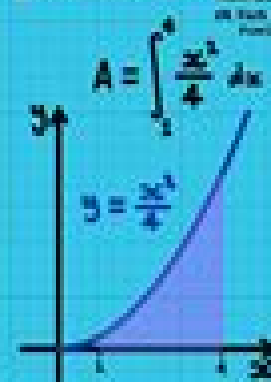
$$N \nu \quad \Xi \xi \quad O \omicron \quad \Pi \pi \quad \rho \rho \quad \Sigma \sigma \varsigma$$

NU XI OMICRON PI RHO SIGMA

$$T \tau \quad Y \upsilon \quad \Phi \phi \quad X \chi \quad \Psi \psi \quad \Omega \omega$$

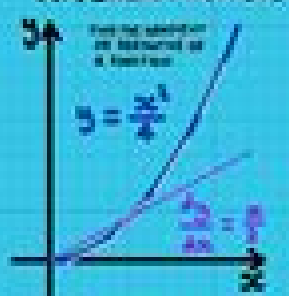
TAU UPPHATA UPSILON PHI CHI PSI OMEGA

## INTEGRATION



## CALCULUS

### DIFFERENTIATION



$$\frac{df}{dx}$$

FIRST DERIVATIVE WITH RESPECT TO X

$$f', f''$$

FIRST AND SECOND DERIVATIVE OF FUNCTION

$$\dot{f}, \ddot{f}$$

FIRST AND SECOND DERIVATIVE WITH RESPECT TO TIME

$$\frac{\partial f}{\partial x}$$

PARTIAL DERIVATIVE WITH RESPECT TO X

## COMPLEX NUMBERS

$$z = 3 + 2i$$

where  $i = \sqrt{-1}$

$$\Re(z) = 3$$

REAL PART OF COMPLEX NUM

$$\Im(z) = 2$$

IMAGINARY PART OF COMPLEX NUM

$$\bar{z} = z^* = 3 - 2i$$

COMPLEX CONJUGATE

# Mathematical Notation Guide

**Anna Lorraine Guthrie, Bertha  
Tannehill, Neltje Marie Tannehill  
Shimer**



## Mathematical Notation Guide:

**Comprehensive List of Mathematical Symbols** Math Vault, 2020-06-13 Ever wonder if there's a reference guide out there summarizing most of the symbols used in mathematics along with contextual examples and LaTeX code so that you can pick up the various topics of mathematics at an unusual speed? Well, now there is! In this jam-packed 75-page eBook, the Comprehensive List of Mathematical Symbols will take you through thousands of symbols in 10 topics and 6 main categories. Each symbol also comes with their own defining examples, LaTeX codes, and links to additional resources, making the eBook both a handy reference and a powerful tool for consolidating one's foundation of mathematics.

**Highlights:** Featuring 1000 of symbols from basic math algebra logic set theory to calculus analysis probability and statistics. Comes with LaTeX code defining contextual examples and links to additional resources. Clear, Concise, Straight to the point with no fluff. Informative, Engaging, Excellent for shortening the learning/reviewing curve.

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*Mathematical Notation* Edward Scheinerman, 2011-09-05 Mathematics is a language with a unique vocabulary written with a dizzying array of often incomprehensible symbols. If we are unsure of the meaning or usage of a mathematical word, a quick internet search is invaluable. But what are we to do when confronted with some strange mathematical hieroglyph? What does one type into the search bar? This book is the answer. Our goal is to cover mathematical notation commonly used by engineers and scientists; notation a university student is likely to encounter. We

make no attempt to teach the mathematics behind these symbols Rather our goal is to give reminders of what these symbols mean from there we can consult textbooks or resources on the web The book is organized by mathematical topic but multiple indices steer the reader to each symbol s explanation We also show how to produce the symbols in LaTeX and give guidance on their mathematical usage

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**Mathematical Teaching and Learning** Katherine M. Robinson, Donna Kotsopoulos, Adam K. Dubé, 2023-06-15 This book focusses on teaching and learning in elementary and middle school mathematics and suggests practices for teachers to help children be successful mathematical thinkers Contributions from diverse theoretical and disciplinary perspectives are explored Topics include the roles of technology language and classroom discussion in mathematics learning the use of creativity visuals and teachers physical gestures to enhance problem solving inclusive educational activities to promote children s mathematics understanding how learning in the home can enhance children s mathematical skills the application of mathematics learning theories in designing effective teaching tools and a discussion of how students teachers teacher educators and school boards differentially approach elementary and middle school mathematics This book and its companion Mathematical Cognition and Understanding take an interdisciplinary perspective to mathematical learning and development

in the elementary and middle school years The authors and perspectives in this book draw from education neuroscience developmental psychology and cognitive psychology The book will be relevant to scholars educators in the field of mathematics education and also those in childhood development and cognition Each chapter also includes practical tips and implications for parents as well as for educators and researchers

## **Mathematical Notation Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mathematical Notation Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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