

# 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 RELATIVE

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

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

## ANGLES

$$30^\circ 45' 20''$$

DEGREES MINUTES AND SECONDS

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

PI RADIANS

## BRACKETS

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

PARENTHESES ABSOLUTE VALUES BRACKETS FIRST

## PROBABILITY AND STATISTICS

| $P(A)$                 | $P(A \cap B)$                 | $P(A \cup B)$         | $P(A B)$                       |
|------------------------|-------------------------------|-----------------------|--------------------------------|
| PROBABILITY OF EVENT A | INTERSECTION PROB. OF A AND B | UNION PROB. OF A OR B | CONDITIONAL PROB. OF A GIVEN B |
| $\bar{x}$              | $\mu, \bar{x}, (\bar{x})$     | $\sigma$              | $\sigma^2$                     |
| MEAN                   | POPULATION MEAN               | STANDARD DEVIATION    | VARIANCE                       |

## 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

### MATRICES

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

$$A \cdot B \quad A+B \quad A \otimes B$$

PRODUCT ADDITION KRONECKER PRODUCT

$$A^T \quad A^i \quad A^*$$

TRANSPOSE MATRIX INVERTING MATRIX OR ADJOINT TRANSPOSE

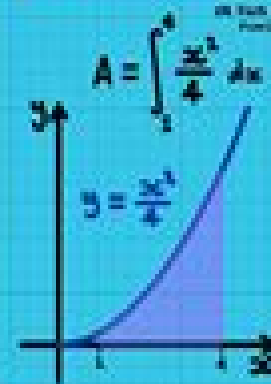
$$|v| \quad \|v\| \quad A^{-1} \quad |A| \quad \|A\|$$

LENGTH OR NORM DETERMINANT NORM

## GREEK ALPHABET

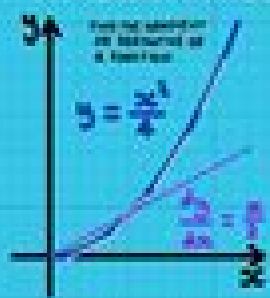
|            |                     |                 |                 |                   |                           |
|------------|---------------------|-----------------|-----------------|-------------------|---------------------------|
| $A \alpha$ | $B \beta$           | $\Gamma \gamma$ | $\Delta \delta$ | $E \epsilon$      | $Z \zeta$                 |
| ALPHA      | BETA                | GAMMA           | DELTA           | EPSILON           | ZETA                      |
| $H \eta$   | $\Theta \theta$     | $I \iota$       | $K \kappa$      | $\Lambda \lambda$ | $M \mu$                   |
| ETA        | THETA               | IOTA            | KAPPA           | LAMBDA            | MU                        |
| $N \nu$    | $\Xi \xi$           | $O \omicron$    | $\Pi \pi$       | $\rho \rho$       | $\Sigma \sigma \varsigma$ |
| NU         | XI                  | OMICRON         | PI              | RHO               | SIGMA                     |
| $T \tau$   | $\Upsilon \upsilon$ | $\Phi \phi$     | $\chi \chi$     | $\Psi \psi$       | $\Omega \omega$           |
| TAU        | UPSILON             | PHI             | CHI             | PSI               | OMEGA                     |

## INTEGRATION



## CALCULUS

### DIFFERENTIATION



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

FIRST DERIVATIVE WITH RESPECT TO X

$$f', f''$$

FIRST AND SECOND DERIVATIVE OF F(X)

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

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

# Basic Math Cheat Sheet

**R Bogdan**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located on the right side of the slide, partially overlapping the light blue bar.

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## **Table of Contents Basic Math Cheat Sheet**

1. Understanding the eBook Basic Math Cheat Sheet
  - The Rise of Digital Reading Basic Math Cheat Sheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Math Cheat Sheet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Basic Math Cheat Sheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Math Cheat Sheet
  - Personalized Recommendations

- Basic Math Cheat Sheet User Reviews and Ratings
- Basic Math Cheat Sheet and Bestseller Lists
- 5. Accessing Basic Math Cheat Sheet Free and Paid eBooks
  - Basic Math Cheat Sheet Public Domain eBooks
  - Basic Math Cheat Sheet eBook Subscription Services
  - Basic Math Cheat Sheet Budget-Friendly Options
- 6. Navigating Basic Math Cheat Sheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Basic Math Cheat Sheet Compatibility with Devices
  - Basic Math Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Basic Math Cheat Sheet
  - Highlighting and Note-Taking Basic Math Cheat Sheet
  - Interactive Elements Basic Math Cheat Sheet
- 8. Staying Engaged with Basic Math Cheat Sheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Math Cheat Sheet
- 9. Balancing eBooks and Physical Books Basic Math Cheat Sheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Math Cheat Sheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Math Cheat Sheet
  - Setting Reading Goals Basic Math Cheat Sheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Math Cheat Sheet
  - Fact-Checking eBook Content of Basic Math Cheat Sheet

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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