

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

ANGLES

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

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
$\bar{x}$	$\mu, \bar{x}, (x)$	σ	σ^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

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

2 BY 3 MATRIX

$A \cdot B$	$A \circ B$	$A \otimes B$
PRODUCT	HADAMARD PRODUCT	KRONECKER PRODUCT
A^T	A'	A^*
TRANSPOSE MATRIX	HERMITIAN MATRIX OR CONJUGATE TRANSPOSE	

$ v $	$\ v\ $	A^{-1}	$ A $	$\ A\ $
LENGTH OF V	NORM OF V	INVERSE MATRIX	DETERMINANT	NORM

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 LAMDA 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

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

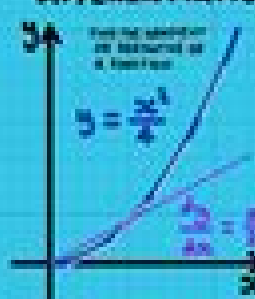
TAU UPPHILAU PHI CHI PSI OMEGA

INTEGRATION



CALCULUS

DIFFERENTIATION



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

FIRST DERIVATIVE WITH RESPECT TO X

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

FIRST AND SECOND DERIVATIVE OF A FUNCTION 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

Lauren Shapiro



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