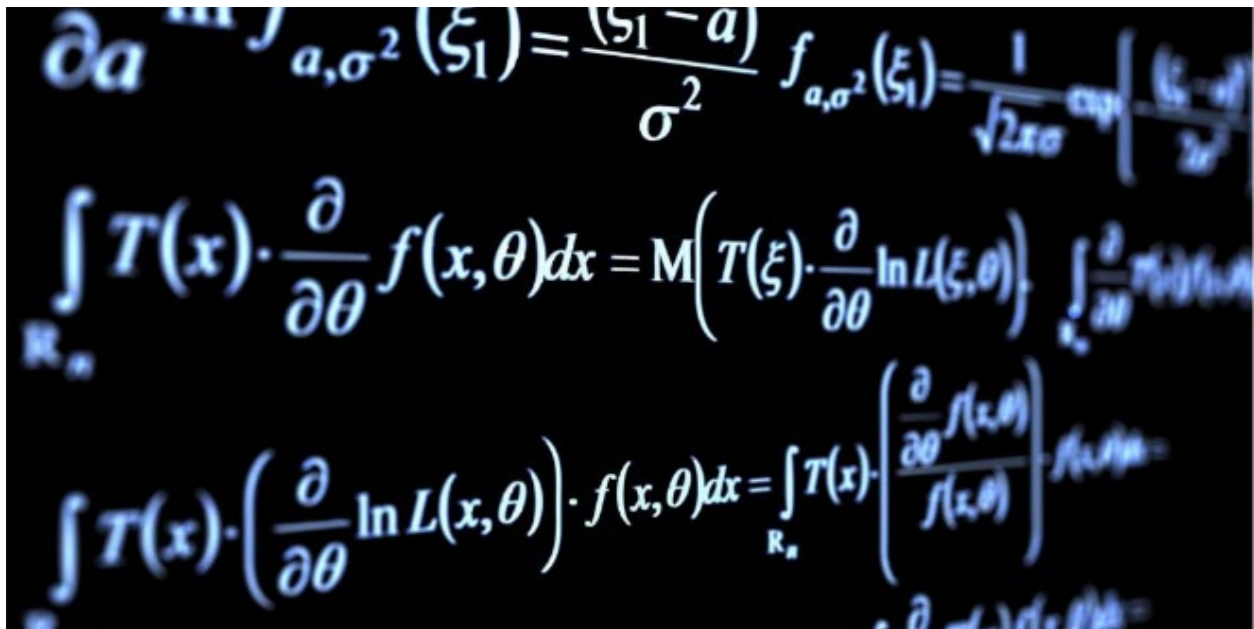


Calculus Glossary

High School Level



The image shows a chalkboard with several mathematical formulas written in white chalk. The formulas are related to probability theory and calculus, specifically focusing on the relationship between the expected value of a function of a random variable and the derivative of the log-likelihood function.

$$\frac{\partial}{\partial a} f_{a, \sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a, \sigma^2}(\xi_1) = \frac{1}{\sqrt{2\pi\sigma}} \exp\left\{-\frac{(\xi_1 - a)^2}{2\sigma^2}\right\}$$
$$\int_{\mathcal{R}_x} T(x) \cdot \frac{\partial}{\partial \theta} f(x, \theta) dx = M\left(T(\xi) \cdot \frac{\partial}{\partial \theta} \ln L(\xi, \theta)\right)$$
$$\int_{\mathcal{R}_x} T(x) \cdot \left(\frac{\partial}{\partial \theta} \ln L(x, \theta)\right) \cdot f(x, \theta) dx = \int_{\mathcal{R}_x} T(x) \cdot \left(\frac{\frac{\partial}{\partial \theta} f(x, \theta)}{f(x, \theta)}\right) \cdot f(x, \theta) dx$$

English - Chinese



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CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
A	
abridge division	捷除法
abridged multiplication	捷乘法
abridged notation	简记法
abridged proof	捷证法
abscissa of absolute convergence	绝对收敛横坐标
abscissa of convergence	收敛横坐标
absolute continuity	绝对连续性
absolute convergence	绝对收敛性
absolute differential	绝对微分
absolute error	绝对误差
absolutely convergent series	绝对收敛级数
abstract number	抽象数
accelerating convergence	加速收敛
addition of ordinates	纵坐标相加
adjacent vertices	相邻顶点
adjoining figure	邻接图形
adjoining rectangles	邻接矩形
adjoining Venn diagram	邻接韦恩图（文氏图）
adjoint determinant	邻接行列式
adjusted proportionally	调整的比例
admissible error	容许误差
advance estimate	事前估计值
algebraic cone	代数锥
algebraic spiral	代数螺线
algebraically complete	代数封闭
alternate determinant	交错行列式
alternate function	交错函数
alternate notation	交错记号
alternating method	交错法
alternating positive and negative	正负交错
alternation series	交错级数
alternative formula	择一公式
alternative symbolism	择一符号
ambiguous	不明确的
ambiguous b data	不明确数据
amplitude of a periodic function	周期函数振幅
amplitude of function	函数振幅
analogue	模拟
analogue calculator	模拟计算器
analogue multiplier	模拟乘数
analytic curve	解析曲线
angle of incidence	入射角
angle of inclination	斜角

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
angle of parallelism	平行角
angle of reflection	反射角
anharmonic ratio	交比；非调和比
anticommutative property	反交换律
antiderivative	反导数
antidifferential	反微分
anti-isomorphism	反同构
antilogarithm	反对数
approach a limit	趋向一个极限
approximate continuity	近似连续
approximate convergence	近似收敛
approximate expansion	近似展开
approximate integration	近似积分
approximate the norm	近似范数
approximately continuous	近似连续
approximating function	逼近函数
approximation by least squares	用最小二次方的趋近
approximation in the mean	平均趋近
arbitrary function	任意函数
arbitrary parameter	任意参数
arbitrary sequence	任意数列
arcsec function	反正割函数
arcsin function	反正弦函数
arctan function	反正切函数
arithmetic progression	等差级数
arithmetic series	等差数列
arithmetical series	等差数列
array	陈列；数组
assertion	断定
associative axiom	接合公理
astroid	星形线
asymmetrical step function	非对称阶梯函数
asymptotic	渐近的
asymptotic circle	渐近圆
asymptotic approximation	渐近逼近法
asymptotic convergence	渐近收敛
asymptotic curvature	渐近曲率
asymptotic characteristic	渐近特性
asymptotic series	渐近数列
asymptotically equal	渐近相等
asymptotically equivalent	渐近等价
augmented matrix	曾广矩阵
automorphic	自同构的；自守的
automorphic function	自守函数
automorphism	自同构

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
auxiliary circle	辅助圆
auxiliary variable	辅助变数
axiom of comparison	比较公理
axiomatic	公理的
axioms of order	公理秩序
B	
basis vector	基向量
binomial differential	二项式微分
binomial distribution	二项分配
binomial series	二项式数列
binomial theorem	二项式定理
biorthogonal	双正交
bisecant	二度割线
block of digits	一组数字
Boolean expression	布尔表达式
Boolean algebra	布尔代数
Boolean factor	布尔因子
Bound	边界；界限
bound for the magnitude	量值的界限
boundary	边缘；边界
boundary line	边界线
boundary complex	边界复形
boundary maxima and minima	边缘最大和最小
boundary of half-plane	半平面的界限
bounded	有边界的
bounded above	上有边界的
bounded below	下有边界的
bounded interval	有边界的区间
Briggsian logarithm	常用对数
C	
calculus	微积分
cardioid	心脏线
center of curvature	曲率中心
central difference interpolation	中心差分差值法
central quadric	有心二次曲面
characteristic function	特征函数
characteristic cone	特征锥
characteristic constant	特征常数
characteristic curve	特征曲线
characteristic determinant	特征行列式
characteristic equation	特征方程
closed interval	闭区间

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
coefficient matrix	系数矩阵
coefficient of correlation	相关系数
cofactor	余因子
coincidence	重合
coincidence number	重合数
coincident lines	重合线
colatitude	余维度
cologarithm	余对数
column matrix	列矩阵
column vector	列向量
common ratio	公比
common difference	公差
common divisor	公约数
common or Briggsian logarithms	常用对数
comparison function	对比函数
complement of set	补集
complete integrability	完全可积分性
complete integral	完全积分
complete limit	完全极限
completeness	完全性
completeness of axiom systems	公理系统的完全性
complex integration	复积分
complex series	复数列
components of a vector	向量的分量
composite determinant	合成行列式
composite matrix	合成矩阵
composition of probabilities	复合概率
composition of vectors	向量的合成
concave downward	凹向下的
concave upward	凹向上的
conchoid	蚌线；螺旋线
condition of integrability	积分的条件
conditional convergence	条件收敛
conditional probability	条件概率
conditionally convergent	条件收敛性
conditionally convergent series	条件收敛数列
conic	二次曲面的；圆锥的
conic section	圆锥曲线
conic projection	二次曲线投影
conic with center	有心二次曲线
conic without center	无心二次曲线
conical function	圆锥函数
conical point	锥顶点
conicoid	二次曲面
conjugate points	共轭点

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
conjugate angle	共轭角
conjugate arc	共轭弧
conjugate axis	共轭轴
conjugate conics	共轭二次曲线
conjugate curves	共轭曲线
conjugate hyperbolas	共轭双曲线
conjugate hyperboloids	共轭双曲面
conjugate imaginary	共轭虚数
conjugate lines	共轭直线
conjugate lines in a conic	二次曲线的共轭直线
conjugate matrice	共轭矩阵
conjugate of function	共轭函数
conjugate pairs	共轭数对
conjugate radicals	共轭根式
consecutive points	相邻点
consistency of linear equation	线性方程的相容性
consistent	相容的；一致的
constant polynomial	常数多项式
constant of integration	积分常数
constrained extreme value	约束极值
constrained maxima and minima	约束最大和最小值
continuity	连续性
continuity from above	上连续
continuity from below	下连续
continuous arc	连续弧
continuous convergence	连续收敛
continuous curve	连续曲线
continuous function	连续函数
continuous integral	连续积分
continuous variable	连续变量
continuously differentiable function	连续可微函数
continuum	连续统；闭联集
convergence	收敛性
convergence domain	收敛自定域
convergence from above	从上收敛性
convergence from below	从下收敛性
convergence in mean	平均收敛
convergent	收敛的
convergent geometric series	收敛等比数列
convergent integral	收敛积分
convergent sequence	收敛数列
convergent series	收敛级数
conversion equations	转换方程
convex domain	凸定义域
convex region	凸区域

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
convexity	凸性
coplanar vector	共面向量
coprime	互素数；互质数
core	柱心
correlation function	相关函数
corss product	叉积；向量积
cosine integral	余弦积分
counterexample	反例
critical point	临界点
critical value of function	函数临界值
cross line	正交线
cross ratio	交比
crossing zero	相交零点
crystallographic axes	结晶体轴
crystallographic group	结晶体群
cubic convergence	三次收敛
cubic curve	三次曲线
cubic equation	三次方程
cubic function	三次函数
cubic polynomial	三次多项式
cubic surface	三次曲面
cuboid	长方体
curvature	曲率
curvature invariant	曲率不变式
curvature of graph	图形的曲率
curvature of a conic	锥面的曲率
curvature vector	曲率向量
curve of distribution	分配曲线
cuspid	尖点
cycloid	摆线；旋轮线
cyclotomic	割圆
cylinder	柱；柱体
cylindrical coordinates	柱面坐标
cylindrical helix	柱面螺旋线
cylindrical polar coordinate	柱面极坐标
cylindrical projection	圆柱投影
cylindrical shell	圆柱壳
D	
De Moiver's Theorem	迪美弗定理
decay	衰变；衰退
decomposition	分解
decreasing degree	次数递减
decreasing function	递减函数
decreasing series	递减级数

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
decreasing sequence	递减数列
deductive logic	演绎逻辑
define implicitly	隐定义
definite integral	定积分
degenerate	退化的
degenerate variables	退化变量
degenerate conic	退化二次曲线
degenerate critical point	退化边界点
degenerate differential equation	退化微分方程
degenerated curve	退化曲线
degree of convergence	收敛度
degree of freedom	自由度
demand matrix	需求矩阵
denotation	外延
dense everywhere	处处稠密
denumerable	可数的
denying premise	否定前提
dependent variable	应变变量
dependent random event	相依随机事件
derivate	求导
derivation of algebra	代数的求导运算
derivative	导数
derivative discontinuity	导数的不连续性
derivative on the left	左导数
derivative on the right	右导数
derivative order	微分阶
derivatives of higher order	高阶导数
derived curve	导数曲线
derived equation	导数方程
Descartes' rule of signs	笛卡尔正负号规则
determinant divisor	行列式除数因子
determinant rank	行列式秩
determinant factor	行列式因子
determinant of coefficient	系数行列式
determinant of transformation	变换行列式
determinantal	行列式的
determinantal expansion	行列式展开式
determinate	行列式
diagonal element	对角元素
diagonal coefficients	对角系数
differentiability	可微性
differentiable	可微分
differentiable curve	可微分曲线
differentiable function	可微分方程
differential	微分

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
differential and integral calculus	微积分
differential equation	微分方程
differential equation of first order	一阶微分方程
differential equation of higher order	高阶微分方程
differential expression	微分式
differential calculus	微分学
differential coefficient	微分系数
differential divisor	微分除数因子
differential of arc	微弧；弧元素
differential of area	面积元素
differential polynomial	微分多项式
differentiate	求微分
differentiating operator	微分算子
differentiation	微分
differentio-integral equation	微分积分方程
digital integration	数字积分
dimensions of matrix	矩阵的维数
directed tangent	有向切线
directed segment	有向线段
directed tangent line	有向切线
direction angle	方向角
direction component	方向分量
direction reversal	反转方向
direction vector	方向向量
direction coefficient	方向系数
direction cosine	方向余弦
direction numbers	方向数
directional derivative	方向导数
directrix	准线
discarding finite numbers	去除有限个数
discontinuity	非连续性
discontinuous	非连续的
discontinuous distribution	非连续性分布
discontinuous function	非连续函数
disjoint sequences	不相交数列
displacement	位移
displacement of n units to the left	向左移动 n 个单位
distinct limits	不同的极限
distinct elements	不同元素
divergence	发散性
divergent	发散的
divergent arbitrarily large	发散到任意大
divergent series	发散数列
dot product	点积
double cusp	双尖点

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
double series	二重数列
double-angle identity	倍角恒等式
double ratio	交比
dummy variable	虚变数
E	
eccentric angle	离心角
eccentric circle	离心圆
eccentricity	离心率
eigenvalue	特徵值
eight-leaved rose curve	八瓣玫瑰线
element of matrix	矩阵的元素
element of the integral	积分元素
ellipse	椭圆
ellipsoid	椭面
ellipsoid of revolution	回转椭（圆）面
elliptic	椭圆的
elliptic cylinder	椭圆柱面
elliptic cone	椭圆锥面
elliptic paraboloid	椭圆抛物面
entry	表值；进入
equilateral hyperbola	等轴双曲线
equilibrium	平衡
equivalence class	等价类
equivalent sequences	等价数列
error correction	误差校正
error estimate	误差评估
escenter of a triangle	三角形的旁心
escribe	旁切
escribed circle	旁切圆
Euler circle	欧拉圆
Euler line	欧拉线
Euler's equation	欧拉方程
even function	偶函数
even-numbered terms	偶数位的项
exact differential	正合微分
excircle	外圆
exclusive	不可兼；排除；排斥
exclusive events	互斥事件
exhaustion	穷举
expanded form	展开式
expansion in series	数列展开式
expansion of a determinant	行列式展开式
expected revenue	期望收益
expected value	期望值

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
exponential series	指数数列
exponential decay	指数递减
exterior product	外积
external ratio	外分比
extreme value theorem	极值定理
F	
finite discontinuity	有限不连续性
finite progression	有限级数
finite sequence	有限数列
finite series	有限级数
first derivation	一阶求导
first integral	初积分
five-leaved rose curve	五瓣玫瑰线
focal axis	焦轴
focal chord	焦弦
focal circle	焦圆
focal conic	焦点二次曲线
focal distance	焦距
focal ellipse	焦椭圆
focal radius	焦半径
focoid	虚圆点
folium	叶形线
formal axiomatics	形式公理学
frequency of occurrence	出现次数
frustum	平截头台
frustum of a cone	圆锥体平截头
frustum of a pyramid	棱锥体平截头
function of dispersion	分散函数
functional limit	函数极限
fundamental direction vector	基本向量
fundamental lemma	基本引理
G	
Gaussian Elimination	高斯消除法
general derivative	一阶导数
generalized limit	广义极限
generalized theorem of mean	广义平均值定理
generator	生成元素; 母线
generator of cylinder	圆柱的母线
geometric means	几何平均值
geometric progression	等比数列
geometric projection	几何投影
geometrical series	等比级数
geometry of the sphere	球面几何

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
gradient	斜率；梯度
gradient vector	梯度向量
graphical integration	图解积分法
greatest lower bound	最大下边界
grid	格子；网络
group theory	群论
gyrate	盘旋的；回转的；旋转的
gyration	回转；旋转
H	
half -open interval	半开区间
half-angle identities	半角恒等式
harmonic	调和的
harmonic mean	调和平均；调和中项
harmonic motion	调和运动
harmonic progression	调和级数
harmonic ratio	调和比例
harmonic series	调和数列
helicoid	螺旋面
helix	螺旋；螺旋线
hemicontinuous	半连续的
hemisphere	半球
heterogeneous	不纯一的
higher derivative	高阶导数
homogeneity	齐性
homogeneous	齐性的
homogeneous equation	齐次方程
homogeneous linear equation	齐次线性方程
hyperbolic cosine	双曲余弦
hyperbolic paraboloid	双曲抛物面
hyperbolic spiral	双曲螺线
hyperboloid	双曲面
hypothetical models	模拟模式
I	
icosahedron	二十面体
identity function	单位函数
identity mapping	单位映射
identity matrix	单位矩阵
identity matrix of order n	n 秩单位矩阵
imaginary ellipsoid	虚椭圆面
imaginary intersection	虚相交
imaginary part	虚部
imaginary sphere	虚球
immediate integration	直接积分法

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
immediate vicinity	紧接的部分
immediate inference	紧接推断
immediate predecessor	紧接前元
immediate successor	紧接后元
implicit definition	隐定义
implicit function	隐方程
implicit difference equations	隐式差分方程
implicit differentiation	隐微分法
implicit method	隐含法
improper conic	退化二次曲线
improper integral	广义积分
improper maximum	非正常最大
improper minimum	非正常最小
improper quadric	退化二次曲面
improper subset	假子集
inaccessible number	不可达数
incidence matrix	关联矩阵
inclination of line	直线的倾角或斜角
inclined plane	斜面
increase steadily	稳定增加
increase without bound	无界增加
indefinite integration	不定积分法
indeterminate forms	不定式
index of summation	和的指数
indicated limit	所指的极限
indirect differentiation	间接微分法
induction hypothesis	归纳假设
inertial coordinates	惯性坐标
infinite determinant	无穷行列式
infinite dimensional	无限维度
infinite discontinuity	无限不连续点
infinite integral	无穷积分
infinite point	无限远点
infinite quantity	无限量
infinite sequence	无限数列
infinite series	无限级数
infinite trigonometric series	无限三角函数数列
infinitely near	无限接近
infinitely near points	无限接近点
infinitely great	无限大
infinitely small	无限小
infinitesimal	无穷小
infinitesimal element	无穷小元素
infinity	无限大; 无穷
inflection	回折

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
inflection point	回折点
initial column	初始列
initial point	初始点
initial velocity vector	初始速度向量
inner derivation	内部求导
inner product	内积
input coefficient	输入系数
input-output matrix	输入输出矩阵
inscribed polyhedron	内接多面体
inscribed prism	内接棱柱
inscribed square	内接正方形
instantaneous velocity	瞬时速度
integrability	可积性
integrable	可积分的
integrable function	可积分函数
integral curve	积分曲线
integral invariant	积分不等式
integral operation	积分运算
integral inequality	积分不等式
integral calculus	积分学
integral constant	积分常数
integral differential equation	积分微分方程
integral differential operation	积分微分运算
integral multiple	整数倍数
integralization	整数化
integrand	被积分函数
integrating factor	积分因子
integration	积分
integration by substitution	带入积分法；换元积分法
integration by partial fraction	部分分式积分法
integration by parts	分部积分法
integration constant	积分常数
interchanging coordinates	坐标交换
intermediate value theorem	中间值定理
intermediate convergent	中间收敛
intermediate differential	中间微分
intermediate variables	中间变量
interpolation by central difference	中差茶值法
interrelationship	相互关系
intersection of solution sets	解集之交
invariant	不变量
invariant under rotation	旋转不变量
invariant integral	不变积分
inverse circular function	反三角函数
inverse matrix	逆矩阵

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
inverse operator	逆运算
inverse rotations	逆转；反转
inverted sequence	逆数列
invertible matrix	可逆矩阵
involute	渐伸线
involute of circle	圆的渐伸线
irreducible over F	在 F 系统不可约
irregular region	不规则区域
iterated integral	重叠积分
J-L	
joint occurrence	联合出现
Lagrange's interpolation formula	拉格朗日插值公式
Lagrange multiplier	拉格朗日乘法因子
lattice	格子
leading term	首项
least square method	最小平方法
least limit	最小极限
left continuous function	左连续函数
left derivative	左求导
left- hand continuity	左方连续性
left- hand derivative	左方导数
left limit	左极限
left-hand limit	左方极限
left-handed system	左旋坐标系
lemniscate	双纽线
limacon	蜗牛形曲线
limit	极限
limit of function	函数的极限
limit of sequence	数列的极限
limit superior	上极限
limitable	可求极限的
limited function	有界函数
limiting position	极限位置
limiting point	极限点
limiting function	极限函数
line at infinity	无穷远线
line of best fitting	最适合直线
line of curvature	曲率线
line of reference	参考线
linear combination	线性组合
linear correlation	线性相关
linear interpolation	线性插值法
linear minimization	线性最小化
linear relation	线性关系

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
lituus	连锁螺线
local maximum	局部最大值
logarithmic	对数的
logarithmic differentiation	对数微分
logarithmic function	对数函数
logarithmic spiral	对数螺旋线
lower bound	下边界
lower integral	下积分
loxodrome	斜驶线
M	
Maclaurin series	马克老林级数
major axis	长轴
matrices	矩阵（多数）
matrix	矩阵
matrix algebra	矩阵代数
matrix equation	矩阵方程
matrix of coefficients	系数矩阵
m-fold factor	m 重因式
minimax approximation	极大极小趋近
minor axis	短轴
minor of a determinant	子行列式
mixed-product	混合积
momentum vector	动力向量
monotone function	单调函数
monotone decreasing	单调递减
monotone increasing	单调递增
monotone sequence	单调数列
multiple factors	多因子
multiple integral	多重积分
multiplication of determinants	行列式乘法
multiplication of vectors	向量乘法
multiplicity of root	根的阶；根的重数
N	
Napierian logarithms	自然对数
nappe	叶
n-dimensional space	n 维空间
neighborhood of a point	点的邻域
nephroid	肾脏线
Newton's method	牛顿法
noncoincident parallel lines	不重合平行线
nondecreasing	非减少的
nondecreasing convergent sequence	非减少的收敛数列
non-degenerate circle	常态圆

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
non-degenerated curve	常态曲线
nonoverlapping subsets	不重叠子集
nonparallel vectors	不平行向量
nonvertical lines	非垂直线
normal	正规；垂直；正交
normal curvature	正规曲率
normal distribution	常态分布
normal integral	正规积分
normal probability distribution	常态几率分布
normal to the curve	曲线的法线
nth power	n 次幂
null function	零函数
null matrix	零矩阵
numerical determinant	数字行列式
O	
oblate ellipsoid	扁椭面
oblate spheroid	扁球面
oblateness	扁率
odd function	奇函数
odd-numbered term	奇数项
one- side limit from the left	左侧极限
one- sided approximation	单侧趋近
one- sided limits	单侧极限
one-side limit from the right	右侧极限
opposite in signs	符号相反
oppositely oriented	方位相反
order	阶
order of a determinant	行列式的阶
order of a matrix	矩阵的阶
orientation	定方向
oriented direction	有向距离
orthogonal	正交的；直角的
orthogonal circles	正交圆
orthogonal component	正交分量
orthogonal cone	正交锥面
orthogonal coordinates	正交坐标
orthogonal vectors	正交向量
orthogonalization	正交化
orthonormal vectors	正交单位向量
orthorhombic	斜方晶系的
oscillatory series	振荡数列
osculating circle	密切圆
osculating plane	密切面
osculation	密切

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
outer product	外积
outward derivative	带向导数
oval	卵形线
P	
parabolic cylinder	抛物柱面
parabolic curve	抛物曲线
paraboloid	抛物面
paraboloid of revolution	回转抛物面
parameter	参数
parametric	参数的
parametric derivative	参数导数
parametric equation	参数方程
partial derivative	偏导数
partial fraction	部分分式
partial sum	部分和
perform successively	连续运算
pericycloid	周摆线
periodic function	周期函数
periodic changes	周期变化
permutation matrix	排列矩阵
perpendicular component	垂直分量
perpendicular component of a vector	向量的垂直分量
phase shift	相移
point of reference	参考点
point of density	密集点
point of discontinuity	间断点
point of division formula	除法公式点
point of increase	增加点
point of inflection	回折点
point sphere	点球
polar	极的
polar angle	极角
polar axis	极轴
polar coordinates	极坐标
polar coordinates in the plane	平面极坐标
polar curve	极坐标曲线
polar distance	极距
polar equation	极方程
polar form	极形式
polar form of complex number	附属的极形式
polar normal	极法线
polar radius	极半径
pole	极；极点
polycylinder	多圆柱

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
polydisc	多圆面
polyhedral angle	多面角
polyhedral convex cone	多面凸锥
polyhedroid	多面体
polynomial function	多项式函数
polynomial interpolation	多项式内插法
polynomial over the field F	F 体系上多项式
portion of a series	级数的部分
positive infinite	正无穷大
power function	幂函数
power series	幂数列
preceding term	前项
preserve validity	有效不变性
prime linear polynomial over C	C 体系中的线性多项式
prime linear factor	线性因子
primitive function	原函数
principal normal vector	主法向量
principal axis	主轴
principal derivative	主导数
principal value	主要值
principal value of arcsine	反正弦函数主要值
principal vector	主向量
principle of inference	推理原理
prismoid	横截面棱锥体
prismoidal formula	横截面棱锥体公式
probability distribution	概率分布
production matrix	相乘矩阵
progression	级数
projection of v on w	向量 v 在 w 上的投影
projective geometry	投影几何
prolate spheroid	长球面
proof by contradiction	矛盾证明法
provide a counterexample	举一反三例
Q	
quadric	二次
quantic	齐次多项式
quartic	四次的
quintic equation	五次方程
quintuple space	五维空间
R	
radical axis	根轴
radical center	根心
radical circle	根圆

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
radical exponent	根指数
radius of curvature	曲率半径
radius of gyration	回转半径
random experiment	随机试验
random variables	随机变数
rank	秩
rank of matrix	矩阵的秩
rank of a determinant	行列式的秩
reciprocal function	倒函数
rectangle rule with left end points	左端点矩形法
rectangle rule with midpoints	中点矩形法
rectangular grid	矩形格子
rectangular array	矩形阵列
rectangular matrix	矩阵
rectifiable	可求长的
rectifiable curve	可求长的曲线
rectifiable arc	可求长的弧线
rectification	求长法
recurring series	循环数列
recursion	递归
recursion formula	递归公式
recursive	递归的
recursive definition	递归定义
reduced matrix	简化矩阵
reducible over F	在 F 系统中可简化
reduction formulas	归约公式
regression line	回归直线
regular integral	正常积分
regular matrix	正常矩阵
regular tetrahedron	正四面体
related rates	相关变率
relative maximum	相对最大值
relative maximum or minimum	相对最大值和最小值
relative maximum point	相对最高点
relative minimum	相对最小值
relative minimum point	相对最低点
relatively prime	相对互质
remainder theorem	余数定理
repeated integral	累积积分
repeated summation	累积求和
resoluble	可解的
resolution of vectors	向量的分解
resolving vector	分解向量
restrictedly convergent	限制收敛
reversion of a series	数列的反演

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
revolution	回转
right differential coefficient	右求导系数
right continuous function	右连续方程
right -hand derivative	右边求导
right -hand system	右手系统
right -handed coordinate system	右方坐标系
rigid body	不动的部分
root of multiplicity	重根
roster of the elements of a set	列出集中元素
rotating coordinate axes	旋转坐标轴
rotating cylinder	旋转柱体
rotation about the origin	围绕原点旋转
round -off error	舍入误差
row vector	行向量
row matrix	行矩阵
row operation	行运算
row rank	行秩
S	
saddle point	鞍点
same orientation	同定向
sandwich digit	中间数字
scalar	纯量；数量
scalar multiple	纯量倍数
scalar multiple of a vector	向量的纯量倍数
scalar multiplication	纯量乘法
scalar product of vectors	向量乘积的纯量
scale equation	标度方程
schematic	图标
schematic diagram	图解
second derivative	二阶求导
semi-closure	半闭合
self- orthogonal	自成正交
semi -closed interval	半闭区间
semimajor axes	半长轴
semiminor axes	半短轴
semiperimeter	半周长
separating point	分离点
sequence	奇数
series	数列
series expansion	数列展开式
serpentine	蛇形
serpentine curve	蛇形曲线
set theory	集合论
sexadecimal system	十六进制

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
sextic	六次
sextic equation	六次方程
shift to the right	向右移动
shifting	移动
signature function	符号函数
similarly oriented	方位相同
simplicity of notation	记号简化
Simpson's rule	辛普森法则
sine wave	正弦波
sinusoid	正弦曲线
skew	偏斜
sliding vector	滑动向量
slope function	斜率函数
solid of revolution	回旋体
solid of rotation	旋转体
spherical coordinates	球面坐标
spheroid	球体
spiral	螺线
spiral of Archimedes	阿基米德螺线
square array	正方行列
square matrix	方阵
square matrix of order	方阵阶
standard deviation	标准差
standard position	标准位置
step by step integration	逐步积分
stereographic projection	球极平面投影
stochastic matrix	随机矩阵
straight line approximation method	直线趋近法
straight line of infinity	无限直线
strophoid	环索线
subdeterminant	子行列式
subdifferentiable	次可微分
subinterval	子区间
subscripts for function	添标函数
subsequence	子序列
subseries	子数列
subtend	对向
subtense	弦；对边
succeeding term	下一项
successive differentiation	逐次微分
successive derivative	逐次求导
successive integration	逐次积分
summation sign	求和符号
summation symbol	求和记号
superior limit	上极限

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
surface of revolution	回转曲面
symmetric equation	对称方程
symmetrical determinant	对称行列式
synonym	同义词
synthetic	合成
synthetic division	综合除法
synthetic-substitution	综合换元法
T	
tangent plane	切面
tangent vector	切向量
tangential	正切的
Taylor expansion	泰勒展开式
Taylor polynomial	泰勒多项式
Taylor series	泰勒数列
tend to L	趋近 L 值
term by term integration	逐项微分
term by term differentiation	逐项积分
terminal point	终点
terminal ray	终边
terminal row	末行
termwise integration	逐项积分
termwise differentiation	逐项微分
tetragonal	四边形的
theorem of pappus	冠毛定理
theory of numbers	数论
three -leaved rose curve	三瓣玫瑰线
topology	拓扑学
transition matrix	转移矩阵
transitive property of order	秩序的传递性
translation of axes	数轴的转移
transpose	转置; 移项
transposed matrix transverse axis	转置矩阵转移数轴
transverse	横轴
transverse axis of hyperbola	双曲线的横截轴
trapezoidal	梯形的
trapezoidal rule	梯形法
triangle inequality	三角不等式
triangular array	三角列阵
triangular surface	三角平面
trifolium	三叶线
trigonometric open sentences	三角开放句
trigonometric substitution	三角函数代入法
triple integral	三次积分
trivial solution	平凡解

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
trochoid	次摆线
two- sided limit	双边极限
U	
unbounded interval	无界限区间
uncertainty relation	不定关系
unconditional inequality	无条件不等式
unconditional convergence	无条件收敛
unconditionally convergent	无条件收敛的
uncorrelated variables	不相关变量
underdeterminant	子行列式
uniform continuity	一致连续性
uniform convergence	一致收敛
uniform divergence	一致发散
unilateral continuity	单项连续
unilateral limits	单侧极限
uniqueness of limit	极限的独特性
unit matrix	单位矩阵
unit angle	单位角
unit vector	单位向量
universe of variable	泛变量
unreduced matrix	不可约矩阵
upper limit	上极限
upper bound	上边界
upper sum	上界和
V	
variable of integration	积分变量
variation	变换
variation of sign	符号的变换
vector angle	向量角
vector inner product	向量内积
vector product	向量积
vector space	向量空间
velocity of particle	质点速度
Venn diagram	韦恩图；文氏图
vertical force upward	垂直向上的力
vicinity of a point	点的邻近
virtual asymptotic line	假渐近线
virtual circle	假圆
volume integral	体积积分

CALCULUS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SIMPLIFIED CHINESE
W - Z	
weighted means	加权平均值
weighting coefficients	加权系数
weighting function	加权函数
x approaches c	x 趋近 c
zero matrix	零矩阵