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# HIGH SCHOOL MATHEMATICS GLOSSARY

PRE-CALCULUS

ENGLISH - CHINESE

高中英漢數學詞匯手冊  
微積分預科

Chinese/Asian Bilingual Education Technical Assistance Center  
Division of Bilingual Education  
Board of Education of the City of New York  
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## INTRODUCTION

The *High School English-Chinese Mathematics Glossary: Pre-calculus* was developed to assist the limited English proficient Chinese high school students in understanding the vocabulary that is included in the New York City High School Pre-calculus Curriculum. To meet the needs of the Chinese students from different regions, both traditional and simplified character versions are included. The bilingual mathematics teachers may also use this glossary as reference material.

This is one of a series of English-Chinese glossaries that is being developed by the Chinese/Asian Bilingual Education Technical Assistance Center (CABETAC), Division of Bilingual Education, Board of Education of the City of New York. The project is made possible by a grant from the Office of Bilingual Education, New York State Education Department.

The following is a list of the glossary series. The Mathematics and Science glossaries will be available by the end of May, 1995. The Social Studies glossaries will be available by the end of September, 1995.

### The Mathematics Series:

- Integrated Mathematics (Course I)
- Integrated Mathematics (Course II)
- Integrated Mathematics (Course III)
- Pre-calculus
- Calculus

### The Science Series:

- High School General Science
- Junior High School Science
- Chemistry
- Physics
- Biology

### The Social Studies Series:

- Global History 1
- Global History 2
- Global History 3
- Global History 4
- American Government
- American History 1
- American History 2

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繁體字版

**TRADITIONAL  
CHARACTERS**

# A

- abridge division 捷除法
- abridged multiplication 捷乘法
- abridged notation 簡記法
- abridged proof 捷證法
- adjacent vertices 相鄰頂點
- adjoining figure 伴隨圖形
- adjoining rectangles 伴隨矩形
- adjoining Venn diagram 伴隨文氏圖
- adjoint determinant 伴隨行列式
- adjusted proportionally 調整比例
- admissible error 容許誤差
- advance estimate 事前估計值
- algebraic cone 代數錐; 代數錐面
- algebraic spiral 代數螺綫
- algebraically complete 代數封閉
- alternate determinant 交錯行列式
- alternating positive and negative  
正負交錯(排列)
- alternative formula 擇一公式
- alternative symbolism 擇一符號
- ambiguous data 模稜資料
- ambiguous sign 分歧號; 重號
- amplitude of a periodic function 週期函數振幅
- amplitude of function 函數振幅
- analogue 模擬
- analogue calculator 模擬計算器
- analogue multiplier 模擬乘法
- angle of inclination 斜角
- angle of incidence 入射角
- angle of parallelism 平行角
- angle of reflection 反射角
- anharmonic ratio 交比; 非調和比; 重比
- anticommutative property 反交換性質
- antilogarithm 反對數
- approximate convergence 近似收斂
- approximate expansion 近似展開式
- approximate the norm 近似範數; 近似規格
- arbitrary parameter 任意參數
- arbitrary sequence 任意數列
- arithmetic progression 算術級數
- arithmetic series 算術級數
- arithmetical series 算術級術; 等差級數



array 陣列; 數組	asymptotically equal 漸近相等
assertion 斷定	asymptotically equivalent 漸近等價
associative axiom 結合公理	augmented matrix 增廣矩陣
astroid 星形綫	automorphic 自同構的; 自守的
asymmetrical step function 非對稱階梯函數	automorphic function 自守函數
asymptotic 漸近的	automorphism 自同構
asymptotic approximation 漸近逼近法	auxiliary circle 輔[助]圓
asymptotic characteristic 漸近特性	axiom of comparison 比較公理
asymptotic circle 漸近圓	axiomatic 公理的
asymptotic series 漸近級數	axioms of order 秩序公理

## B

- base vectors 基向量
- basis vector 基本向量
- binomial distribution 二項分配
- binomial theorem 二項式定理
- biorthogonal 雙正交
- bisecant 二度割綫
- block of digits 一組數字
- Boolean algebra 布爾代數
- Boolean expression 布爾表達式
- Boolean factor 布爾因子
- bound 界; 邊界; 約束
- bound for the magnitude 對數量的界限
- boundary 界; 邊界; 邊緣
- boundary complex 邊界複形
- boundary line 界綫
- boundary maxima and minima  
邊緣極大和極小
- boundary of half-plane 半平面的界限
- bounded 有界的
- bounded above 上有界的
- bounded below 下有界的
- Briggsian logarithm 常用對數

# C

- cardioid 心臟線
- center of curvature 曲率中心
- characteristic cone 特徵錐; 特徵錐面
- characteristic constant 特徵常數
- characteristic curve 特徵[曲]綫
- characteristic determinant 特徵行列式
- characteristic equation 特徵方程
- characteristic function 特徵函數
- characteristic root 特徵根
- characteristic vector 特徵向量
- circle of curvature 曲率圓
- closed half-plane 閉半平面
- closed interval 閉區間
- coefficient matrix 係數矩陣
- cofunction 餘函數
- cologarithm 餘對數
- column vector 列向量
- common difference 公差
- common divisor 公約數
- common or Briggsian logarithms 常用對數
- commom ratio 公比
- comparison function 比較函數
- complement of set 補集
- completeness 完全性
- completeness of axiom systems  
公理系統的完全性
- components of a vector 向量的分量
- composite determinant 合成行列式
- composite matrix 合成[矩]陣
- composition of probabilities 概率合成
- composition of vectors 向量的合成
- coefficient of correlation 相關系數
- coincidence 疊合; 重合
- coincidence number 疊合數
- coincident lines 重合直線
- column matrix 列矩陣
- concave downward 凹向下的
- concave upward 凹向上的
- conchoid 蚌綫
- conditional convergence 條件收斂
- conditionally convergent 條件收斂
- conditional probability 條件機率

conic	二次曲綫的; 圓錐的	consistency of linear equation	綫性方程的相容性
conic projection	二次曲綫投影	consistent	相容的; 一致的; 無矛盾的
conic section	圓錐曲綫; 二次曲綫	constant polynomial	常數多項式
conic with center	有心二次曲綫	continuity	連續性
conic without center	無心二次曲綫	continuous function	連續函數
conical point	錐頂點	convergence	收斂
conical function	圓錐函數	convergent	收斂的
conicoid	二次曲面	convergent geometric series	收斂幾何級數
conjugate angle	共軛角	convergent sequence	收斂序列
conjugate arc	共軛弧	conversion equations	轉換方程
conjugate axis	共軛軸	convex domain	凸域
conjugate conics	配極二次曲綫; 共軛二次曲綫	convex region	凸區域
conjugate curves	共軛曲綫	convexity	凸性
conjugate hyperbolas	共軛雙曲綫	coplanar vector	共面向量
conjugate hyperboloids	共軛雙曲面	coprime	互素數
conjugate imaginary	共軛虛數	core	柱心
conjugate lines	共軛直綫	counterexample	反例
conjugate lines in a conic	二次曲綫的共軛直綫	critical point	臨界點
conjugate matrice	共軛[矩]陣	cross line	正交綫
conjugate of function	函數的共軛	crystallographic group	結晶體群
conjugate pairs	共軛數對	crystallographic axes	結晶體軸
conjugate points	共軛點	cubic curve	三次曲綫
conjugate radicals	共軛根式(數)	cubic equation	三次方程
		cubic polynomial	三次多項式

cubic surface 三次曲面

cuboid 長方體

curvature 曲率

curvature invariant 曲率不變式

curvature of a conic 二次曲線的曲率

curvature of graph 圖形的曲率

curve of distribution 分配曲線

cycloid 旋輪綫; 擺綫

cyclotomic 割圓

cylinder 柱; 柱面

cylindrical helix 柱面螺旋綫

cylindrical projection 圓柱投影

## D

- De Moiver's Theorem 棣美弗定理
- decreasing degree 次數遞減
- decreasing function 遞減函數
- decreasing sequence 下降序列
- decreasing series 遞減級數
- deductive logic 演繹邏輯
- degenerate critical point 退化臨界點
- degenerate conic 退化二次曲綫
- degenerated curve 退化曲綫
- degree of freedom 自由度
- demand matrix 需求矩陣
- denumerable 可數的
- denying premise 否定前題
- dependent random event 相依隨機事件
- dependent variable 應變數
- Descartes' rule of signs 笛卡兒正負號規則
- determinate 行列式
- determinant divisor 行列式因子
- determinant factor 行列式因子
- determinant of coefficient 系數行列式
- determinant of transformation 變換行列式
- determinant rank 行列式秩
- determinantal 行列式的
- determinantal expansion 行列式展開
- diagonal coefficients 對角系數
- diagonal element 對角元素
- dimensions of matrix 矩陣的維數
- direction angles 方向角
- direction coefficient 方向係數
- direction component 方向分量
- direction cosine 方向餘弦
- direction numbers 方向數
- direction vector 方向向量
- directrix 準線
- discontinuous function 不連續函數
- disjoint sequences 不相交的序列
- displacement 移位; 剛體運動
- displacement of n unites to the left  
向左移n單位
- distinct elements 不同的元素
- distinct limits 不同的極限
- divergence 發散性; 散度; 發散量

divergent 發散的

divergent arbitrarily large 發散到任意大

divergent series 發散級數

double-angle identity 倍角恒等式

double ratio 交比; 非調和比

## E

- eccentric angle 離心角; 偏心角  
eccentric circle 離心圓  
eccentricity 離心率; 偏心率  
eight-leaved rose curve 八瓣玫瑰綫  
element of matrix 矩陣的元素  
elliptic 橢圓的; 橢圓形的  
elliptic cylinder 橢圓柱面  
ellipse 橢圓  
entry 進入; 通路; 表值  
equilateral hyperbola 等軸雙曲線; 直角雙曲線  
equilibrium 平衡  
equivalent sequences 等價序列  
error correction 誤差校正; 糾錯  
error estimate 誤差估計  
escenter of a triangle 三角形的旁心  
escribe 旁切  
escribed circle 旁切圓  
Euler circle 歐拉圓  
Euler's equation 歐拉方程  
even function 偶函數  
excircle 外圓  
exclusive 不可兼; 排除; 排斥  
exclusive events 互斥事件  
exhaustion 窮舉  
expanded form 展開式  
expansion in series 級數展開  
expansion of a determinant 行列式的展開  
expected revenue 期望收益  
expected value 期望值  
exponential series 指數級數  
exterior product 外積  
external ratio 外分比



## F

- finite progression 有限級數
- finite sequence 有限數列
- finite series 有限級數
- five-leaved rose curve 五瓣玫瑰線
- focal axis 焦軸
- focal chord 焦弦
- focal circle 焦圓
- focal conic 焦點二次曲綫
- focal distance 焦距
- focal ellipse 焦橢圓
- focal radius 焦半徑
- focoid 虛圓點
- folium 葉形綫
- formal axiomatics 形式公理學
- frequency of occurrence 出現次數
- function of dispersion 分散函數
- fundamental direction vector 基本向量

## G

Gaussian Elimination 高斯消去法

generator 母綫; 生成元

geometric means 幾何平均數

geometric progression 幾何級數

geometric projection 幾何投影

geometrical series 幾何級數; 等比級數

geometry of the sphere 球面幾何

greatest lower bound 最大下界

group theory 群論

# H

half-angle identities 半角恒等式

harmonic mean 調和平均; 調和中項; 調和中數

harmonic motion 調和運動

harmonic progression 調和級數

harmonic ratio 調和比

harmonic series 調和級數

harmonics 調和函數

helicoid 螺旋面

heterogeneous 不純一的; 參差

homogeneity 齊性

homogeneous 齊性[的]; 齊次; 齊的

homogeneous equation 齊次方程

homogeneous linear equation 齊次線性方程式

hyperbolic spiral 雙曲螺綫

hypothetical models 擬設模式

# I

- icosahedron 二十面體
- identity matrix 單位方陣
- identity function 恒等函數
- identity mapping 恒等映射
- identity matrix of order  $n$   $n$ 秩單位矩陣
- imaginary ellipsoid 虛橢圓面; 虛橢球
- imaginary intersection 虛相交
- imaginary part 虛部
- imaginary sphere 虛球
- immediate predecessor 緊接前元
- immediate successor 緊接後元
- immediate vicinity 緊接的部份
- improper conic 退化二次曲線
- improper quadric 退化二次曲面
- improper subset 假子集
- inaccessible number 不可達數
- incidence matrix 關聯矩陣
- inclined plane 斜面
- increase steadily 穩定增加
- increasing without bound 無界增加
- indicated limit 所指的極限
- induction hypothesis 歸納假設
- infinite determinant 無窮行列式
- infinite dimensional 無限維
- infinite discontinuity 無窮不連續點
- infinite quantity 無窮量
- infinite sequence 無窮數列
- infinite series 無窮級數
- infinite trigonometric series 無限三角級數
- inflection 拐折; 回折
- inflection point 拐點; 回折點
- initial column 初始列
- initial point 始點
- inner product 內積
- input coefficient 輸入係數
- input-output matrix 輸入輸出矩陣
- inscribed polyhedron 內接多面體
- inscribed prism 內接棱柱
- inscribed square 內接正方形
- integral multiple 整數倍
- integralization 整化
- interchanging coordinates 座標交換

intermediate convergent 中間收斂

interpolation by central difference

中差插值法

interrelationship 相互關係

intersection of solution sets 解集之交

invariant 不變; 不變式; 不變量

invariant under rotation 旋轉不變量

inverse circular function 反三角函數

inverse matrix 逆[矩]陣

inverse rotations 逆轉; 反轉

inverted sequence 逆序; 反序

invertible matrix 可逆[矩]陣

irreducible over  $F$  在 $F$ 係不可約

## J

- joint occurrence 聯合出現
- Lagrange's interpolation formula  
拉格朗日插值公式
- lattice 格
- leading term 首項
- least limit 最小極限
- lemniscate 雙紐綫
- limit 極限
- limit of function 函數的極限
- limit of sequence 數列的極限
- line of curvature 曲率綫
- line of reference 參考綫; 基礎; [直]綫
- linear combination 一次組合; 綫性組合
- linear correlation 綫性相關
- linear interpolation 綫性插值法
- linear minimization 綫性極小化
- linear relation 一次關係; 綫性關係
- lituus 連鎖螺綫
- local maximum 局部極大
- logarithmic function 對數函數
- logarithmic spiral 對數螺綫
- lower bound 下界
- loxodrome 斜駛綫

## M

m-fold factor m重因式

major axis 長軸

matrix 矩陣; 真值表

matrices 矩陣(多數)

matrix algebra [矩]陣代數

matrix equation 矩陣方程式

matrix of coefficients 系數矩陣

minor axis 短軸

minor of a determinant 子行列式

mixed-product 混合積

monotone decreasing 單調遞減

monotone function 單調函數

monotone increasing 單調遞增

monotone sequence 單調序列

multiple factors 多因子

multiplication of determinants 行列式乘法

multiplication of vectors 向量乘法

multiplicity of root 根的階; 根的重數

## N

n-dimensional space n維空間

Napierian logarithms 自然對數; 訥皮爾對數

nephroid 腎臟綫

Newton's method 牛頓法

non-degenerate circle 常態圓

non-degenerated curve 常態曲綫

noncoincident parallel lines 不重合平行綫

nondecreasing 不減少的

nondecreasing convergent sequence

非減收斂序列

nonparallel vectors 不平行向量

nonoverlapping subsets 不相交子集合

nonvertical lines 非垂直直綫

normal distribution 常態分配

normal curvature 法曲率

normal probability distribution 常態機率分配

nth power n次幂

null function 零函數

null matrix 零矩陣

numerical determinant 數字行列式



# O

- odd function 奇函數
- odd-numbered term 奇數項
- one-side limit from the right  
右單側極限
- opposite in signs 符號相反
- order 階
- order of a determinant 行列式的階
- order of a matrix [矩]陣階
- oriented direction 有向距離
- orthogonal 正交的; 直角的; 矩形的
- orthogonal circles 正交圓
- orthogonal component 正交分量
- orthogonal cone 正交錐面
- orthogonal coordinates 正交坐標
- orthogonal vectors 正交向量
- orthogonalization 正交化
- orthonormal vectors 正交單位向量
- orthorhombic 斜方晶系的
- oscillatory series 振蕩級數
- outer product 外積
- oval 卵形綫

## P

- parabolic curve 拋物曲綫
- parameter 參數; 參變量
- parametric equation 參數方程式
- partial sum 部份和
- pericycloid 周擺綫
- periodic changes 週期變化
- periodic function 週期函數
- perform successively 連續運算
- permutation matrix 置換矩陣; 排列矩陣
- perpendicular component 垂直分量
- perpendicular component of a vector  
向量的垂直分量
- phase shift 相移
- point of increase 增點
- point of inflection 拐點; 反凹點; 變曲點
- point sphere 點球
- polar 極的; 極面; 極綫
- polar angle 極角
- polar axis 極軸
- polar coordinates 極坐標
- polar coordinates in the plane 平面極坐標
- polar curve 配極曲綫; 極坐標曲綫
- polar distance 極距
- polar equation 極方程
- polar form 極形式; 極型
- polar form of complex number 複數的極式
- polar normal 極法綫
- polar radius 極半徑
- pole 極; 極點
- polycylinder 多圓柱
- polydisc 多圓柱
- polyhedral angle 多面角
- polyhedral convex cone 多面凸錐
- polyhedroid 多面體
- polynomial function 多項式函數
- polynomial interpolation 多項式內插法
- polynomial over the field  $F$   
 $F$ 體上多項式
- portion of a series 級數的部份
- preceding term 前項
- preserve validity 有效性不變
- prime linear factor 一次質因子; 綫性質因子

prime linear polynomial over  $\mathbb{C}$

$\mathbb{C}$ 中的素一項式

primitive function 原函數

principal axis 主軸

principle of inference 推理原理

principal value 主值

principal value of arcsine 反正弦函數主值

principal vector 主向量

probability distribution 機率分配

production matrix 積矩陣

progression 級數

projective geometry 投影幾何

proof by contradiction 矛盾證明法; 反證法

provide a counterexample 舉一反例

Q

quartic 四次

quintic 五次

quintic equation 五次方程

quintuple space 五維空間

# R

- radical axis 根軸; 等幂軸
- radical center 根心; 等幂心
- radical circle 根圓
- radical exponent 根指數
- rank 秩
- random experiment 隨機試驗
- random variables 隨機變數
- rank of a determinant 行列式的秩
- rank of matrix 矩陣的秩
- rigid body 剛體
- reciprocal function 倒函數; 互反函數
- rectangle rule with left end points  
左端點矩形法
- rectangle rule with midpoints 中點矩形法
- rectangular array 矩陣列; 長方陣列
- rectangular matrix 矩陣
- recurring series 循環級數
- recursion 遞歸(式); 遞推; 循環
- recursion formula 遞推公式; 遞歸公式
- recursive 遞歸的
- recursive definition 遞歸定義; 遞推定義
- reduced matrix 簡化矩陣
- reducible over  $F$  在 $F$ 中化簡
- reduction formulas 歸約公式; 化簡公式
- regression line 迴歸直線
- regular matrix 正則矩陣
- relative maximum or minimum  
相對極大或極小
- relative maximum point 相對極大點
- relative minimum point 相對極小點
- relatively prime 相對互質
- remainder theorem 餘式定理
- resoluble 可解; 可解決
- resolution of vectors 向量的分解
- resolving vector 分解向量
- reversion of a series 級數的反演
- revolution 回轉
- root of multiplicity  $K$   $K$ 重根
- roster of the elements of a set  
列出集中元素
- rotating coordinate axes 旋轉座標軸
- rotating cylinder 旋轉柱體

rotation about the origin 繞原點旋轉

row matrix 行矩陣

row operation 行運算

row rank 行秩

row vector 行向量

# S

- same orientation 同定向  
 scalar 純量; 數量; 無向量  
 scalar multiple 純量相乘  
 scalar multiple of a vector 向量和純量乘積  
 scalar multiplication 純量乘法  
 scalar product of vectors 向量分量的乘積  
 scale equation 標度方程; 尺度方程  
 schematic diagram 圖表; 圖解; 略圖  
 self-orthogonal 自成正交  
 semimajor axes 半長軸  
 semiminor axes 半短軸  
 semiperimeter 半周長  
 separating point 分離點  
 sequence 序列  
 series 級數  
 series expansion 級數展開  
 serpentine 蛇形綫  
 serpentine curve 蛇形綫  
 set theory 集合論  
 sextic 六次綫; 六次  
 sextic equation 六次方程  
 shift to the right 向右移  
 shifting 移位  
 simplicity of notation 記號簡化  
 Simpson's rule 辛浦森法  
 sine wave 正弦波  
 sinusoid 正弦曲線  
 skew 斜; 偏斜  
 sliding vector 滑動向量  
 spiral 螺綫; 蝟綫  
 spiral of Archimedes 阿基米得螺綫  
 square array 正方陣列  
 square matrix 方陣  
 square matrix of order 方陣階  
 standard deviation 標準差  
 standard position 標準位置  
 stereographic projection 球極平面射影  
 stochastic matrix 隨機矩陣  
 straight line approximation method  
     直綫近似法  
 straight line of infinity 無限直綫  
 subdeterminant 子[行列]式

subinterval 子區間

subsequence 子序列; 部份序列

subseries 子級數

subtend (弦; 邊; 角等)對向(弧或對角等)

subtense 弦; 對邊

succeeding term 次一項

summation sign 求和符號; 連加號

summation symbol 求和符號

superior limit 上限

symmetric equation 對稱方程

symmetrical determinant 對稱行列式

synonym 同義語

synthetic 綜合; 合成

synthetic division 綜合除法

synthetic-substitution 綜合代換(法)



# T

- tangent plane 切面
- tangent vector 切向量
- terminal point 終點
- terminal ray 終邊
- terminal row 末行
- tetragonal 四角形的; 四邊形的
- theory of numbers 數論
- three-leaved rose curve 三瓣玫瑰線
- topology 拓撲學
- transition matrix 轉移矩陣
- transitive property of order 秩序的遞移性
- transpose 轉置; 移項
- transposed matrix 轉置矩陣
- transverse axis 橫截軸
- trapezoidal 梯形的; 不規則四邊形的
- trapezoidal rule 梯形法
- triangle inequality 三角不等式
- triangular array 三角陣列; 三角數組
- triangular surface 三角平面
- trigonometric open sentences 三角開放句
- trifolium 三葉綫
- trochoid 次擺綫

## U

uncertainty relation 不定關係

unconditional convergence 無條件收斂

unconditional inequality 無條件不等式

unconditionally convergent 無條件收斂的

underdeterminant 子行列式

uncorrelated variables 不相關變量

uniform continuity 一致連續性

uniform convergence 一致收斂

uniform divergence 一致發散

unit matrix 單位[矩]陣

unit angle 單位角

unit vector 單位向量

universe of variable 泛變數; 全變數

upper bound 上界

upper sum 上界和

unreduced matrix 不可約矩陣

## V

variation of sign 符號變更

vector angle 向量角

vector inner product 向量內積

vector product 向量積

vector space 向量空間

velocity of particle 質點(運動)速度

Venn diagram 文氏圖

vertical force upward 垂直向上的力

virtual asymptotic line 假漸近綫

virtual circle 假圓

variation 變分; 變差

# X

x approaches c x趨近c

# Z

zero matrix 零矩陣

zero polynomial 零多項式