

Glossary

High School Level Algebra **2** Glossary

English | Simplified Chinese

Translation of Algebra 2 and Trigonometry terms based on the Coursework for Algebra 2 and Trigonometry Grades 9 to 12.



This glossary is to PROVIDE PERMITTED TESTING ACCOMMODATIONS of ELL/MLL students. It should also be used for INSTRUCTION during the school year. The glossary may be downloaded, printed and disseminated to educators, parents and ELLs/MLLs.

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Algebra 2 and Trigonometry

English	Simplified Chinese
Problem Solving	解题
algebraically	用代数方法、在代数上
alternate approach	替代方法
collaborate	合作、协作
conjecture	推测
constraint	约束、限制
critique	评论、批评
equivalent	等值的
evaluate	求...值、估计
explain	解释
formulate	使公式化、规划、构想出
generalization	概括化、普遍化
graphically	图像的
interpret	解释、阐明
multiple representations	多重表述
numerically	数值的
observe	观察
parameter	参数
strategy	策略
verbally	言辞的、文字上的
Reasoning and Proof	推论与证明
argument	论证
axiom	公理
conclusion	结论
conjecture	推测
counterexample	反例、反证
discover	发现
exact answer	精确答案
explain	解释
explore	探索
general case	一般情况
inductive reasoning	归纳推理

Algebra 2 and Trigonometry

English	Simplified Chinese
informal indirect proof	非正式间接证明
investigate	调查
justify	证明
refute	驳斥、辩驳
specific result	具体结果
theorem	定理
Communication	通信、联络、传送
accuracy	准确性
appropriate	适当的
challenge	挑战
chart	表、图表
coherent	一致的、协调的
comprehension	理解
conjecture	推测
decoding	译码、解码
diagram	图、图表
equation	方程式
formula	公式、方程式
function	函数
graph	图、作图
interpretation	解释、阐明
logical argument	逻辑论证
mathematical representation	数学表述
numerical tables	数值表
organize	组织
outline	大纲、轮廓
rationale	逻辑依据、原理的阐述
reflect	反映、反射出
standard notation	标准符号
strategy	策略
symbol	符号
technical writing	技术写作

Algebra 2 and Trigonometry

English	Simplified Chinese
terminology	术语、专门名词
validity	有效、有效性
verbal explanation	口头解释
written explanation	书面解释
Connections	连接
concept	概念
conclusion	结论
formulate	使公式化、规划、构想出
multiple representation	多重表述
physical model	实体模型
procedure	过程、程序
quantitative model	量模型
representation	表述
Representation	表述
algebraic representation	代数表述
apply	应用、运用、把...施（用）于
chart	表、图表
communicate	传达、传递、通讯、交流
compare	比较
concept	概念
diagram	图、图表
equation	方程式
explore	探索
graph	图、作图
graphical representation	图形表述
investigate	调查
mathematical phenomena	数学现象
multiple representations	多重表述
organize	组织、安排
physical object	实体物体
physical phenomena	物理现象
recognize	辨识、认出

Algebra 2 and Trigonometry

English	Simplified Chinese
record	档案、记录
social phenomena	社会现象
symbol	符号
table	表、表格
technology	技术
translate	转化
Number Sense and Operations	数字概念与运算
a+bi form	a+bi 式
absolute value	绝对值
complex fraction	繁分数
complex number	复数
conjugate	共轭的
direct variation	直接变量
e	e
fractional exponent	分数指数
<i>i</i>	<i>i</i>
imaginary number	虚数
index of a radical	根式的开方次数
inverse variation	逆变量、反变量
irrational number	无理数
negative exponent	负指数
nth root	n次方根
operation	运算
pi	圆周率
powers of <i>i</i>	<i>i</i> 的幂/乘方
principal square root	主平方根
procedure	过程、程序
radical	方根
radical form	根式
radicand	被开方数
rational number	有理数
rationalize a denominator	分母有理化

Algebra 2 and Trigonometry

English	Simplified Chinese
real number	实数
scientific notation	科学记数法
sigma	西格马
sigma notation	连加号
Algebra	代数
abscissa	横坐标
absolute value	绝对值
absolute value equation	绝对值方程式
absolute value function	绝对式函数
absolute value inequality	绝对值不等式
adjacent angles	邻角
adjacent sides	邻边
algebraic expression	代数表达式
algebraic representation	代数表述
ambiguous case	歧例
amplitude	幅度、幅角、振幅
analyze	分析、解析
angle	角
angle in standard position	标准位置角
angle of depression	俯角
angle of elevation	仰角
antilogarithm	反对数、逆对数
approximate value	近似值
arc length	弧长
arccosine	反余弦
arcsine	反正弦
arctangent	反正切
area of a parallelogram using SAS	用边角边求平行四边形的面积
area of a triangle using SAS	用边角边求三角形的面积
arithmetic sequence	算术序列、数列
arithmetic series	算术级数
asymptote	渐进线

Algebra 2 and Trigonometry

English	Simplified Chinese
base	底、底数、基数
base of a logarithmic function	对数函数的底
base of an exponential function	指数函数的底
binomial expansion	二项式展开
binomial theorem	二项式定理
center-radius equation of a circle	圆的中心半径公式
central angle	圆心角
circle	圆
circular functions	三角函数
coefficient	系数
cofunctions	余函数
common base(s)	公共底、同底
common difference	共同区别
common factor	公因子、公因子
common logarithm	常用对数
common ratio	公共比率
completing the square	配方法
complex fractional expressions	繁分数表达式
composition of functions	函数的复合
compound interest	复利息
constant function	常数函数
cosecant	余割
cosine	余弦
cotangent	余切
coterminal angles	共终边的角、同界角
degree of a polynomial	多项式的次方
difference of two perfect squares	两个完全平方差
direct variation	直接变量
discriminant	判别式
domain	域、定义域
double and half angle formulas for trigonometric functions	三角函数的二倍角和半角公式

Algebra 2 and Trigonometry

English	Simplified Chinese
double root	二重根
e	e
equation	方程式
equivalent forms	等值形式
exact value	精确值
expand a binomial	扩展一个二项式
explicit definition	外显定义
exponential form	指数形式
exponential function	指数函数
extraneous root	增根
factor	因子、因式、因式分解
fractional exponent	分数指数
frequency (of a periodic function)	周期函数的频率
function	函数
function notation	函数符号
geometric sequence	几何序列/几何数列
geometric series	几何级数
graphical solution of equations	方程式的图解
greatest common factor (GCF)	最大公因式 (数)
growth factor	增长系数、增长因子
half-life	半衰期
horizontal-line test	水平线测试
i	i
identities	恒等式、恒等
initial side of an angle	角的始边
inverse function	反函数
inverse trigonometric functions	反三角函数反
inverse variation	反变量、逆变量
Law of Cosines	余弦定理
Law of Sines	正弦定理
laws of exponents	指数定理
laws of logarithms	对数定理
linear equation	一次方程、线性方程

Algebra 2 and Trigonometry

English	Simplified Chinese
linear expression	一次表达式
linear system	线性系统
logarithm	对数
logarithmic form	对数形式
lowest terms	最简式
nature of the roots	根的性质
negative exponent	负指数
n th root	n 次方根
n th term	第 n 项
one cycle of a trigonometric function	三角函数的一个周期
one-to-one function	一对一函数
onto	在...上、到...上
opposite side in a right triangle	直角三角形里的对边
ordinate	纵坐标
parabola	抛物线
parameter	参数
period (of a function)	(函数) 的周期
periodic function	周期函数
phase shift	周相移动
polynomial expression	多项式表达式
polynomial function	多项式函数
powers of i	i 的幂/乘方
Pythagorean identities	勾股定理
quadrantal angle	象限角
quadratic equation	二次方程
quadratic formula	二次公式、二次求根公式
quadratic inequality	二次不等式
quadratic trinomial	二次三项式 (的)
radian	弧度
radical equation	根式方程
radical expression	根式表达式
radius	半径 (单数)
range (of a function)	函数的值域

Algebra 2 and Trigonometry

English	Simplified Chinese
rational coefficient	有理系数
rational equation	有理方程式
rational expression	有理表达式
rational inequality	有理不等式
rationalize denominators	分母有理化
reciprocal trigonometric functions	倒数三角函数
recursive definition	回归意义、递归意义
reference angle	参考角、参准角
relation	关系
replacement set	变量取值集
represent	代表
restricted domain	限制定义域、缩小定义域
resultant	合量、结式
right triangle trigonometry	直角三角形的三角法
root of an equation	方程式的根
secant (of an angle)	(角)的正割/割线
sigma notation	连加号
sine	正弦
solution set	解集
standard position (of an angle)	(角的)标准位置
subset	子集
sum and product of roots of a quadratic equation	二次方程式根的和与积
sum of a geometric series	几何级数的和
sum of an arithmetic series	算术级数的和
sum or difference formulas for trigonometric functions	三角函数的和或差的公式
system of equations/inequalities	方程式/不等式的系统
tangent (of an angle)	(角)的切线
technology	技术
terminal side of an angle	角的终边

Algebra 2 and Trigonometry

English	Simplified Chinese
transformation	变换、转换、变形
transformations of functions and relations	函数和关系的转换
trigonometric equation	三角方程式
trigonometric functions	三角函数
unit circle	单位圆
variable	变量
vector	矢量
vertical line test	垂直线
zero of a function	函数的零点
zero product property	零的积的性质
Geometry	几何
absolute value	绝对值
absolute value equation	绝对值方程式
absolute value inequality	绝对值不等式
angle in standard position	标准位置的角
angle of depression	俯角
angle of elevation	仰角
area of a parallelogram using SAS	用边角边求平行四边形的面积
area of a triangle using SAS	用边角边求三角形的面积
circle	圆
coefficient	系数
function	函数
generalize	概括化、普遍化
geometric representation of the circular function	圆函数的几何表述、三角函数的几何表述
graph of a relation	关系图
graphical representation	图形表述
graphical solution of equations	方程式的图解
investigate	调查
ordered pair	序对
parabola	抛物线
rational coefficient	有理系数

Algebra 2 and Trigonometry

English	Simplified Chinese
rectangular coordinates	直角
relation	关系
root of an equation	方程式的根
sector of a circle	(圆内) 扇形
slope	斜率、坡度
triangle	三角形
vertex	顶点
visualization	可见性、形象化
Measurement	测量
arc length	弧长
degree measure	以度为单位测量
measure of central angle	测量圆心角
minute	分钟
radian measure	弧度的测量
Statistics and Probability	统计量与概率
at least	至少
at most	至多
Bernouli experiments	伯努利实验
biased sample	有偏差的样本
bimodal	双峰分布、双模态的
binomial probability formula	二项式概率公式
bivariate data	二元数据、二变量数据
central tendency	集中趋势
combination	组合
compound event	复合事件
conjecture	推测
controlled experiment	被调控的试验
correlation coefficient	相互关联的系数
Counting Principle	计数原理、读数原理
exactly	精确的
experimental probability	实验概率
extrapolate	外推
frequency (of a data set)	(数据集的) 频率

Algebra 2 and Trigonometry

English	Simplified Chinese
frequency distribution	频率分布
grouped frequency distributions	频率分布群
index in statistics	统计指标
interpolate	内推法、内插
interquartile range	四分位数间距
least squares regression line	最小平方回归线
line of best fit	最佳拟合线
linear regression	线性回归
mean	平均数
measure of central tendency	集中趋势测量
measures of dispersion	离散测量
median	中位数、中线
mode	众数
normal curve	常态曲线、正态曲线
normal distribution	常态分布
observation	观察
outlier	外露层
Pascal's Triangle	帕斯卡尔三角形
percentile	百分位数
permutation	排列
probability	概率
quartiles	四分点（的）、四分值（的）、四分位数（的）
random sample	随机样本
range (of a data set)	（数据集的）区域/范围
regression equation	回归方程式
regression model	回归模式
sample space	样本空间
scatter plot	（在直角坐标在线）定点
standard deviation (population)	标准差、标准偏差（全域）
standard deviation (sample)	标准差、标准偏差（样本）
statistics	统计
survey	调查表
technology	技术

Algebra 2 and Trigonometry

English	Simplified Chinese
theoretical probability	定理概率
univariate data	单变量的、一元的
variance (population)	方差（全域）
variance (sample)	方差（样本）