

Glossary

High School Level

Integrated Algebra Glossary

English | Traditional Chinese

Translation of Integrated Algebra terms based on the Coursework for Integrated Algebra 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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Integrated Algebra

English	Chinese
Problem Solving	解題
algebraically	用代數方法、在代數上
concept	概念
conjecture	推測
constraint	約束、限制
equivalent	等值的
formulate	使公式化、規劃、構想出
generalization	概括化、普遍化
graphically	圖像的
multiple representations	多重表述
numerically	數值的
parameter	參數
pattern	模式、型式、圖
relative efficiency	相對效率
strategy	策略
verbally	言辭的、文字上的
Reasoning and Proof	推論與證明
appropriate	適當的
approximation	近似
argument	論證
claim	要求、聲稱、主張
conclusion	結論
conjecture	推測
counterexample	反例、反證
explain	解釋
inductive reasoning	歸納推理
logical argument	邏輯論證
mathematical conjecture	數學推測
proof	證明
refute	駁斥、辯駁
systematic approach	系統方法

Integrated Algebra

English	Chinese
validity	有效性
Venn diagram	範氏圓形對比圖
verify	檢驗、核驗
Communication	通信、聯絡、傳送
accuracy	準確性
analyze	分析、解析
argument	論證
coherent	一致的、協調的
communicate	傳達、傳遞、通訊、交流
comprehension	理解
conclusion	結論
conjecture	推測
decoding	譯碼、解碼
elicit	引出、推導出
equation	方程式
evaluate	求...值、估計
extend	延伸、延展
formula	公式、方程式
function	函數
graph	圖、作圖
interpretation	解釋、闡明
mathematical visual	直觀數學
rationale	邏輯依據、原理的闡述
standard (mathematical) notation	標準（數學）符號
strategy	策略
table	表、表格
technical writing	技術寫作
terminology	術語、專門名詞
valid	有效
Connections	連接
coherent whole	整體一致、整體協調

Integrated Algebra

English	Chinese
concept	概念
connection	連接
formulate	使公式化、規劃、構想出
physical model	實體模型
procedure	過程、程序
quantitative model	量模型
representation	表述
Representation	表述
angle of elevation	仰角
array	排列、列陣
chart	表、圖表
compare	比較
diagram	圖、圖表
equation	方程式
function	函數
graph	圖、作圖
interpret	解釋、闡明
mathematical phenomena	數學現象
organize	組織、安排
physical phenomena	物理現象
profit	利潤
record	檔案、記錄
social phenomena	社會現象
symbol	符號
table	表、表格
technology	技術
translate	轉化
Number Sense and Operations	數字概念與運算
absolute value	絕對值
algebraic problem	代數問題
arithmetic operation	算術運算

Integrated Algebra

English	Chinese
arrangements (permutations)	排列
associative property	結合性
closure property	封閉性
commutative property	互換性
counting techniques	計算技巧
decimal	小數
denominator	分母
discount	折扣
distributive property	分配法
exponential expression	指數表達式
expression	表達式
factorial	階乘
field	域
fraction	分數
Fundamental Principle of Counting	計算的基本原則
group	群
identity property	恒等性
inverse property	逆反性
like/unlike radical terms	與根式項相似/不相似
number theory	數字定理
numerator	分子
percent of increase/decrease	百分率增長/下降
product	乘積
properties of the Real numbers	實數的性質
proportionality/direct variation	比例/直接變量
quotient	商
radical	根式
radicand	被開方數
real numbers	實數
scientific notation	科學記數法
simplest form	最簡式
variable	變量

Integrated Algebra

English	Chinese
Algebra	代數
acute angle	銳角
adjacent side/angle	鄰邊/鄰角
algebraic equation	代數方程式
algebraic expression	代數表達式
algebraic fraction	代數分數式
analyze	分析、解析
axis of symmetry	對稱軸
binomial	二項式
coefficient	係數
common base	共底、同底
complement of a subset	子集之補集
coordinates	坐標
cosine	餘弦
dependent	相關
difference of two perfect squares	兩個完全平方的差別
element	元、元素
equation	方程式
exponent	指數
exponential growth and decay	指數增長和減少
expression	表達式
factoring	因式分解
fractional expression	分數表達式
greatest common factor (GCF)	最大公因式 (數)
hypotenuse	斜邊
independent variable	自變量、獨立變量
inequality	不等式
integer	整數
integral coefficient	整數係數
integral exponent	整數指數
integral root(s)	整數根
intersection of sets	集合的相交

Integrated Algebra

English	Chinese
interval notation	間隔符號
lead coefficient	首項係數
legs of a right triangle	直角三角形的直角邊
line parallel to the x- or y-axis	與x-軸或者y-軸平行的線
linear equation in one variable	一個變量的一次方程、一個變量的線性方程
linear inequality in one variable	一個變量的一次不等式、一個變量的線性方程
literal equation	文字方程
lowest terms fraction	分數的最簡式
monomial	單項式
multiplication property of zero	零的乘法性質
opposite side/angle	對邊/對角
parabola	拋物線
parallel	平行
polynomial	多項式
product	乘積
properties of exponents	指數的性質
proportion	比例
Pythagorean Theorem	勾股定理、畢氏定理
quadratic equation	二次方程
quantitative	量的、數量的
quotient	商
ratio	比、比率
relation	關係
right angle	直角
right triangle	直角三角形
root(s) of an equation	方程式的根
roster form	人員名簿
set	集
set-builder notation	集標記符號
sine	正弦
slope	斜率、坡度

Integrated Algebra

English	Chinese
solution set	解集
subset	子集
sum	和
system of linear inequalities	一次不等式系統
systems of linear equations	一次方程式系統
tangent	切線
translate (from verbal to symbolic)	轉化（從文字至符號）
trigonometry	三角學
trinomial	三項式
undefined	不定項
union of sets	集的合集
universal set	全集
variable	變量
verbal expression	文字表達式
verbal sentence	文字語句
vertex	頂點（單數）
x-axis	x-軸
y-axis	y-軸
Geometry	幾何
absolute value function	絕對值函數
angle	角
area	面積
axis of symmetry of a parabola	拋物綫的對稱軸
circle	圓
coefficient	係數
cylinder	圓柱體
decagon	十邊形
exponential function	指數函數
function	函數
generalize	概括化、普遍化
geometric shape	幾何圖形
graph of a relation	關係圖

Integrated Algebra

English	Chinese
hexagon	六邊形
investigate	調查
nonagon	九邊形
octagon	八邊形
ordered pair	坐標點序對
parabolic function	拋物線函數
parallelogram	平行四邊形
pentagon	五邊形
perimeter	周長
polygon	多邊形
quadrilateral	四邊形
quarter-circle	四分之一圓
rational coefficient	有理係數
rectangle	長方形
rectangular solid	長方形立體
regular polygon	正多邊形
relation	關係
rhombus	菱形
roots of a parabolic function	拋物線函數的根
sector of a circle	(圓內)扇形
semi-circle	半圓
spatial reasoning	空間論證
square	正方形
surface area	表面面積
trapezoid	梯形
triangle	三角形
vertex	頂點 (單數)
visualization	可見性、形象化
volume	體積、容積
Measurement	測量
appropriate unit	適當單位
conversion	轉換

Integrated Algebra

English	Chinese
cubic unit	立方單位
error	錯誤
linear measure	線性測量
linear unit	線性單位
magnitude	量、數量、長度
measurement system	測量系統
rate	比、速率
relative error	相對誤差
square unit	平方單位
unit	單位
Statistics and Probability	統計量與概率
appropriateness	正確性
biased	有偏差的
bivariate	二元的、二變量的
box-and-whisker plot	百分位數圖
calculated probability	計算概率
categorize	分類
causation	因果關係、引起、導致
central tendency	集中趨勢
complement	餘角
conditional probability	條件概率
correlation	關聯、相互關係
cumulative frequency distribution table	累積頻率分佈表
cumulative frequency histogram	累積頻率直條圖
data	數據
dependent events	相依事件
dependent variable	相依變量
element	元、元素
empirical probability	經驗機率、經驗概率
experimental design	實驗設計
extrapolation	外推法、歸納、推論
favorable event	有利事件

Integrated Algebra

English	Chinese
finite sample space	有限樣本空間
five statistical summary	五個統計總結
frequency distribution table	頻率分佈表
histogram	直條圖
independent events	獨立事件
independent variable	獨立變量、自變量
interpolation	內插法、內推法
line of best fit	最佳擬合線
linear transformation	線性變換、一次變換
maximum	最大值
mean	平均數
measure of central tendency	集中趨勢測量
median	中位數、中線
minimum	最小值
mode	眾數
mutually exclusive events	互斥事件
not mutually exclusive events	非互斥事件
percentile rank	百分位數等級
probability	概率
qualitative	質的、質量的
quantitative	量的、定量的
quartiles (specifically: first, second, third or lower, middle, upper)	四分點(的)、四分值(的)、四分位數(的) (特別是：第一、第二及第三個四分位，也稱為低、中及高四分位數)
range	區域、範圍、量程、排列
sample space	樣本空間
scatter plot	(在直角坐標系上)定點
series	級數
univariate	單變量的、一元的