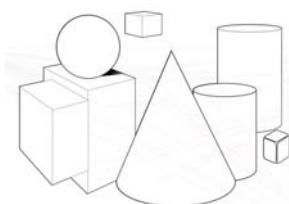


Glossary

High School Level

Geometry Glossary

English / Chinese Traditional



Translation of Geometry terms based on the Coursework for Geometry Grades 9 to 12.

Word-for-word glossaries are used for testing accommodations for ELL/LEP students

Last Updated: 08/10/09





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Geometry

| English | Chinese |
|-------------------------------|----------------------|
| Problem Solving | 解題 |
| AA triangle similarity | 兩個角相等 (AA) 的三角形的相似性 |
| AAA triangle similarity | 三個角相等 (AAA) 的三角形的相似性 |
| AAS triangle congruence | 角角邊 (AAS) 三角形的全等性 |
| additive property of equality | 相等式加法性質 |
| algorithm | 規則系統、算法 |
| apply | 應用、運用、把...施 (用) 於 |
| ASA triangle congruence | 角邊角 (ASA) 三角形的全等性 |
| conjecture | 推測 |
| constraints | 約束、限制 |
| construct | 作圖、構造 |
| discover | 發現 |
| dynamic geometry software | 動態幾何軟件 |
| explore | 探索 |
| generalization | 概括化、普遍化 |
| inductive reasoning | 歸納推理 |
| justify | 證明 |
| parameters | 參數 |
| reason | 理由 |
| truth value | 真值 |
| valid argument | 有效的論證 |
| Reasoning and Proof | 推論與證明 |
| AA triangle similarity | 兩個角相等 (AA) 的三角形的相似性 |
| AAA triangle similarity | 三個角相等 (AAA) 的三角形的相似性 |
| AAS triangle congruence | 角角邊 (AAS) 三角形的全等性 |
| analytical proof | 解析證明 |
| angle addition postulate | 角相加的公理 |
| ASA triangle congruence | 角邊角 (ASA) 三角形的全等性 |
| axiom | 公理 |
| biconditional | 雙向條件 |
| conclusion | 結論 |

Geometry

| English | Chinese |
|--|------------------|
| conditional statement | 條件陳述 |
| conjecture | 推測 |
| conjunction | 連接 |
| contradiction | 矛盾 |
| contrapositive of a statement | 逆否語句、經過質位變換產生的語句 |
| converse of a statement | 逆語句 |
| counterexample | 反例、反證 |
| deductive proof | 演繹證明 |
| deductive reasoning | 演繹推理 |
| definition | 定義 |
| disjunction | 分離、分裂 |
| dynamic geometry software | 動態幾何軟件 |
| equivalence relation | 等值關係 |
| Euclidean Parallel Postulate | 歐幾里得平行公理 |
| explain | 解釋 |
| geometry | 幾何 |
| hypotenuse and leg triangle congruence | 斜邊與三角形的直角邊的全等性 |
| hypothesis | 假設 |
| indirect proof | 間接證明 |
| inductive reasoning | 歸納推理 |
| inverse of a statement | 逆語句 |
| investigate | 調查 |
| justify | 證明 |
| logical equivalent | 邏輯等值 |
| negation | 相反、否定 |
| paragraph proof | 段落證明法 |
| parallel postulate(s) | 平行公理 |
| proof | 證明 |
| proof by contradiction | 反證法 |
| proportional | 成比例的 |
| Pythagorean Theorem | 勾股定理、畢氏定理 |
| reason | 理由 |
| reflexive property of equality | 等式自反性 |

Geometry

| English | Chinese |
|----------------------------------|---------------------|
| SAS triangle congruence | 邊角邊 (SAS) 三角形的全等性 |
| SAS Similarity Theorem | 邊角邊 (SAS) 三角形的相似性定理 |
| SSS triangle congruence | 邊邊邊 (SSS) 三角形的全等性 |
| substitution property | 代入性質 |
| subtraction property of equality | 等式減法性質 |
| symmetric property of equality | 等式對稱性質 |
| theorem | 定理 |
| transformational proof | 變換證明 |
| transitive property of equality | 等式可遞性質 |
| truth value | 真值 |
| two-column proof | 兩行式證明 |
| undefined terms | 未定義詞項 |
| union of sets | 並集、合集 |
| valid argument | 有效的論證 |
| Communication | |
| | 通信、聯絡、傳送 |
| axiom | 公理 |
| biconditional | 雙向條件 |
| compound statement | 複合陳述 |
| conclusion | 結論 |
| conditional statement | 條件陳述 |
| conjecture | 推測 |
| conjunction | 連接 |
| contrapositive of a statement | 逆否語句、經過質位變換產生的語句 |
| converse of a statement | 逆語句 |
| definition | 定義 |
| disjunction | 分離、分裂 |
| explain | 解釋 |
| hypothesis | 假設 |
| inverse of a statement | 逆語句 |
| justify | 證明 |
| negation | 相反、否定 |
| theorem | 定理 |

Geometry

| English | Chinese |
|--------------------------------|--------------------|
| truth value | 真值 |
| undefined terms | 未定義詞項 |
| Connections | 連接 |
| apply | 應用、運用、把...施（用）於 |
| compound locus | 複合軌跡 |
| discover | 發現 |
| intersection of sets | 集的交點 |
| investigate | 調查 |
| spatial relationships | 空間關係 |
| union of sets | 並集、合集 |
| Representation | 表述 |
| analytical geometry | 解析幾何 |
| coordinate geometry | 坐標幾何 |
| definition | 定義 |
| Euclidean geometry | 歐幾里得幾何 |
| function | 函數 |
| graphical representation | 圖形表述 |
| locus of points | 點的軌跡 |
| logical equivalence | 邏輯等值 |
| non-Euclidean geometry | 非歐幾里得幾何 |
| three dimensional space | 三維空間 |
| transformational geometry | 圖形變換幾何 |
| two dimensional space | 二維空間 |
| Geometric Relationships | 幾何關係 |
| AA triangle similarity | 兩個角相等（AA）的三角形的相似性 |
| AAA triangle similarity | 三個角相等（AAA）的三角形的相似性 |
| AAS triangle congruence | 角角邊（AAS）三角形的全等性 |
| ASA triangle congruence | 角邊角（ASA）三角形的全等性 |
| absolute value | 絕對值 |
| acute angle | 銳角 |
| acute triangle | 銳角三角形 |

Geometry

| English | Chinese |
|------------------------------------|------------|
| adjacent angles | 鄰角 |
| algebraic representation | 代數表述 |
| alternate interior angles | 內錯角 |
| altitude | 高線、頂垂線 |
| analytical geometry | 解析幾何 |
| angle | 角 |
| angle bisector | 角的等分線 |
| angle measure | 角的度量 |
| apothem | 邊心距 |
| arc | 弧 |
| arc measure | 弧的度量 |
| area | 面積 |
| axis of symmetry | 對稱軸 |
| base | 底（邊）、底數、基數 |
| betweenness | 中間性、介於 |
| bisector | 等分線 |
| center of a circle | 圓心 |
| center of a regular polygon | 正多邊形的中心點 |
| center of gravity | 重心 |
| central angle | 圓心角 |
| central angle of a regular polygon | 正多邊形的圓心角 |
| centroid | 形心、重心、矩心 |
| chord | 弦 |
| circle | 圓 |
| circumcenter | 外心、外接圓心 |
| circumcircle (about a polygon) | 外接圓（多邊形） |
| circumference | 圓周 |
| collinear points | 共線點 |
| common tangents | 公切線 |
| complementary angles | 餘角 |
| concave polygon | 凹多邊形 |
| concentric circles | 同心圓 |
| concurrent lines | 共點線 |

Geometry

| English | Chinese |
|-------------------------------------|------------|
| cone | 圓錐體 |
| congruence | 全等 |
| conic sections | 圓錐截面 |
| constant of proportionality | 比例常數 |
| convex polygon | 凸多邊形 |
| coordinate geometry | 坐標幾何 |
| coplanar | 共面的 |
| corresponding angles | 對應角 |
| corresponding parts | 對應部分 |
| corresponding sides | 對應邊 |
| crossection | 交叉部分 |
| cube | 立方體 |
| cylinder | 圓柱體 |
| definition | 定義 |
| diagonals | 對角線 |
| diameter | 直徑 |
| dihedral angle | 二面角 |
| distance | 距離 |
| distance between a point and a line | 點與線之間的距離 |
| distance between two parallel lines | 兩條平行線之間的距離 |
| distance between two points | 兩個點之間的距離 |
| dodecahedron | 12面體 |
| ellipse | 橢圓形 |
| endpoint | 端點 |
| equiangular | 等角的 |
| equidistant | 等距的 |
| equilateral triangle | 等邊三角形 |
| equilateral polygon | 等邊多邊形 |
| Euclidean Geometry | 歐幾里得幾何 |
| Euclidean Parallel Postulate | 歐幾里得平行公理 |
| exterior | 外部的 |
| exterior angle | 外角 |
| external secant segment | 外部割線 |

Geometry

| English | Chinese |
|--------------------------------|--------------|
| face of a polyhedron | 多面體的面 |
| foot of an altitude | 高線的底部 |
| function | 函數 |
| geometric mean | 幾何平均值 |
| geometry | 幾何 |
| golden ratio | 黃金比例 |
| golden rectangle | 黃金長方形 |
| great circle | 大圓 |
| hemisphere | 半圓 |
| Heron's formula | 海倫公式 |
| hexagon | 六邊形 |
| hypotenuse | (直角三角形中的) 斜邊 |
| icosahedron | 二十面體 |
| incenter of a polygon | 多邊形内心 |
| inclination | 傾角、斜角 |
| inscribed angle | 圓周角 |
| inscribed circle | 內切圓 |
| intercepted arc | 截弧 |
| intercepts | 截距 |
| interior | 內部的 |
| intersecting lines | 相交直線 |
| isosceles trapezoid | 等腰梯形 |
| isosceles triangle | 等腰三角形 |
| kite | 風箏 |
| lateral area of a prism | 棱柱體的側面積 |
| lateral edge | 側棱 |
| lateral face | 側面 |
| lateral surface | 側表面 |
| legs of a right triangle | 直角三角形的直角邊 |
| legs of an isosceles trapezoid | 等腰梯形的邊 |
| length | 長 |
| line | 線 |
| line segment | 線段 |

Geometry

| English | Chinese |
|------------------------------------|-----------|
| linear pair | 一對互爲補角的角 |
| locus of points | 點的軌跡 |
| major arc | 優弧、大于半圓的弧 |
| mean proportional | 比例中項 |
| measure of an angle | 角的度數 |
| measure of an arc | 弧的度量 |
| median of a trapezoid | 梯形的中線 |
| median of a triangle | 三角形的中線 |
| midpoint | 中點 |
| midsegment | 中間段 |
| minor arc | 小弧、劣弧 |
| n-gon | n邊形 |
| non-collinear | 不共線的 |
| non-coplanar | 不共面的 |
| non-Euclidean geometry | 非歐幾里得幾何 |
| obtuse angle | 鈍角 |
| obtuse triangle | 鈍角三角形 |
| octagon | 八邊形 |
| octahedron | 八面體 |
| opposite rays | 反向射線 |
| orthocenter | 垂心 |
| orthogonal | 正交的 |
| parabola | 拋物線 |
| parallel line segments | 平行線段 |
| parallel lines | 平行線 |
| parallelepiped | 平行六面體 |
| parallelogram | 平行四邊形 |
| pentagon | 五邊形 |
| perimeter | 周長 |
| perpendicular bisector | 垂直平分線 |
| perpendicular bisector concurrence | 垂直平分線交點 |
| perpendicular lines | 垂直線 |
| perpendicular planes | 垂直面 |

Geometry

| English | Chinese |
|---------------------------------|-----------|
| pi | 圓周率 |
| plane | 面 |
| point | 點 |
| point of concurrency | 交點 |
| point of tangency | 切點 |
| polygon | 多邊形 |
| polyhedron | 多面體 |
| prism | 棱柱體 |
| product property of proportions | 比例的乘積性質 |
| proportional | 比例的 |
| pyramid | 棱錐、棱錐體 |
| Pythagorean Theorem | 勾股定理、畢氏定理 |
| quadrant | 象限 |
| quadratic equation | 二次方程 |
| quadratic formula | 二次公式 |
| quadrilateral | 四邊形 |
| radius | 半徑 |
| ratio | 比率 |
| ray | 射線 |
| real numbers | 實數 |
| rectangle | 長方形 |
| rectangular solid | 長方形立體 |
| regular polygon | 正多邊形 |
| remote interior angles | 不相鄰內角 |
| rhombus | 菱形 |
| right angle | 直角 |
| right triangle | 直角三角形 |
| scalene triangle | 不等邊三角形 |
| secant | 割線 |
| segment | 線段 |
| segment of a circle | 弓形 |
| semicircle | 半圓 |
| set | 集 |

Geometry

| English | Chinese |
|------------------------------------|----------|
| similar polygons | 相似多邊形 |
| similar triangles | 相似三角形 |
| simple quadrilateral | 簡單四邊形 |
| skew lines | 斜直線 |
| slant height | 斜高 |
| slope | 斜率、坡度 |
| sphere | 球體、球面 |
| square | 平方 |
| supplementary angles | 互補角 |
| surface area | 表面積 |
| tangent segment | 切線段 |
| tangent to a circle | 圓的切線 |
| tessellation | 花紋鑲嵌 |
| tetrahedron | 四面體 |
| three-dimensional space | 三維空間 |
| topology | 拓撲學 |
| transformational geometry | 圖形變換幾何 |
| transversal | 橫截的、横向的 |
| trapezoid | 梯形 |
| triangle | 三角形 |
| triangle inequality | 三角不等式 |
| trigonometry of the right triangle | 直角三角形三角學 |
| two-dimensional space | 二維空間 |
| vector | 矢量 |
| vertex | 項點 |
| vertical angles | 對頂角 |
| vertical line | 垂直線 |
| volume | 體積、容積 |
| x-axis | x-軸 |
| x-intercept | x-截距 |
| y-axis | y-軸 |
| y-intercept | y-截距 |
| z-axis | z-軸 |

Geometry

| English | Chinese |
|------------------------------------|----------------------|
| Constructions | 作圖、構造 |
| angle bisector | 角的等分線 |
| bisector | 等分線 |
| center of a regular polygon | 正多邊形的中心點 |
| center of gravity | 重心 |
| circumcircle (about a polygon) | 外接圓 (多邊形) |
| compass | 圓規 |
| construct | 作圖、構造 |
| dynamic geometry software | 動態幾何軟件 |
| perpendicular bisector | 垂直平分線 |
| perpendicular bisector concurrence | 垂直平分線交點 |
| perpendicular lines | 垂直線 |
| straightedge | 邊、直尺 |
| Locus | 軌跡 |
| circle | 圓 |
| compound locus | 複合軌跡 |
| ellipse | 橢圓 |
| hyperbola | 雙曲線 |
| locus of points | 點的軌跡 |
| parabola | 拋物線 |
| Formal and Informal Proofs | 正規與非正規證明 |
| AA triangle similarity | 兩個角相等 (AA) 的三角形的相似性 |
| AAA triangle similarity | 三個角相等 (AAA) 的三角形的相似性 |
| AAS triangle congruence | 角角邊 (AAS) 三角形的全等性 |
| ASA triangle congruence | 角邊角 (ASA) 三角形的全等性 |
| angle addition postulate | 角相加的公理 |
| axiom | 公理 |
| biconditional | 雙向條件 |
| conclusion | 結論 |
| conditional statement | 條件陳述 |
| conjecture | 推測 |

Geometry

| English | Chinese |
|--|---------------------|
| conjunction | 連接 |
| contradiction | 矛盾 |
| contrapositive of a statement | 逆否語句、經過質位變換產生的語句 |
| converse of a statement | 逆語句 |
| counterexample | 反例、反證 |
| deductive reasoning | 演繹推理 |
| definition | 定義 |
| disjunction | 分離、分裂 |
| dynamic geometry software | 動態幾何軟件 |
| equivalence relation | 等值關係 |
| Euclidean Parallel Postulate | 歐幾里得平行公理 |
| hypotenuse and leg triangle congruence | 斜邊與三角形的直角邊的全等性 |
| indirect proof | 間接證明 |
| inductive reasoning | 歸納推理 |
| inverse of a statement | 逆語句 |
| justify | 證明 |
| logical equivalent | 邏輯等值 |
| negation | 相反、否定 |
| parallel postulate(s) | 平行公理 |
| postulate | 公理 |
| proof | 證明 |
| proof by contradiction | 反證法 |
| Pythagorean Theorem | 勾股定理、畢氏定理 |
| reason | 理由 |
| reflexive property of equality | 等式自反性 |
| SAS triangle congruence | 邊角邊三角形 (SAS) 的全等性 |
| SAS Similarity Theorem | 邊角邊三角形 (SAS) 的相似性定理 |
| SSS triangle congruence | 邊邊邊三角形 (SSS) 的全等性 |
| substitution property | 代入性質 |
| subtraction property of equality | 等式減法性質 |
| symmetric property of equality | 等式對稱性質 |
| theorem | 定理 |
| transitive property of equality | 等式可遞性質 |
| transformational proof | 變換證明 |

Geometry

| English | Chinese |
|---------------------------------------|---------|
| truth value | 真值 |
| two-column proof | 兩行式證明 |
| undefined terms | 未定義詞項 |
| union of sets | 並集、合集 |
| valid argument | 有效的論證 |
| Transformational Geometry | |
| axis of symmetry | 對稱軸 |
| center of a dilation | 膨脹中心 |
| center of a rotation | 旋轉中心 |
| clockwise (orientation) | 順時針（方向） |
| composition | 復合、合成 |
| constant of proportionality | 比例常數 |
| contraction | 縮小 |
| counterclockwise (orientation) | 逆時針（方向） |
| dilation | 膨脹 |
| direct transformation | 直接變換 |
| domain | 域、定義域 |
| dynamic geometry software | 動態幾何軟件 |
| fixed point | 不動點、固定點 |
| function | 函數 |
| function notation for transformations | 函數變換符號 |
| glide reflection | 滑動反射 |
| group | 群 |
| half-turn | 轉180度 |
| identity | 恒等式 |
| image | 映像 |
| inverse of a transformation | 逆變換 |
| isometry | 等距 |
| mapping (function) | 映射（函數） |
| opposite transformation | 逆變換 |
| orientation | 定方向 |
| preimage | 逆象、原象 |
| reflection | 反射 |

Geometry

| English | Chinese |
|--------------------------------------|----------------|
| rotation | 旋轉 |
| rotational symmetry | 旋轉對稱 |
| symmetry | 對稱 |
| tessellation | 花紋鑲嵌 |
| transformation | 變換 |
| transformational geometry | 變換幾何 |
| translation | 轉化 |
| Coordinate Geometry | |
| abscissa | 橫坐標 |
| analytical geometry | 解析幾何 |
| analytical proof | 解析證明 |
| Cartesian coordinates | 直角坐標、笛卡爾坐標 |
| Cartesian plane | 笛卡爾平面 |
| center-radius equation of circle | 圓的中心-半徑公式 |
| coordinate | 坐標 |
| coordinate geometry | 坐標幾何 |
| coordinate plane | 坐標平面 |
| distance between two points | 兩個點之間的距離 |
| origin | 原點 |
| point slope equation of a line | 線的點斜式方程式 |
| rectangular coordinates | 長方形坐標 |
| slope - intercept equation of a line | 線的斜截式方程式 |
| three-dimensional space | 三維空間 |
| two-dimensional space | 二維空間 |
| vector | 矢量 |
| x-axis | x-軸 |
| x-intercept | x-截距 |
| y-axis | y-軸 |
| y - intercept | y-截距 |
| z-axis | z-軸 |