

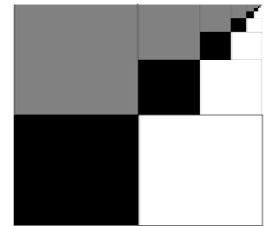
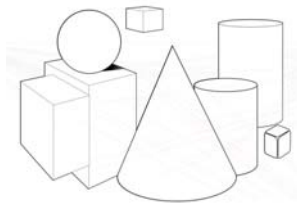
Glossary

High School Level

Geometry Glossary

English | Tagalog

Translation of Geometry terms based on the Coursework for Geometry 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.

[Please click here for the New York State Office of Bilingual Education and World Languages Webpage on "Assessment and Testing Accommodations"](#)





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GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL
GLOSARYO NG GEOMETRY - HIGH SCHOOL NA ANTAS

| ENGLISH / INGLES | TAGALOG |
|-------------------------------|---------------------------------------|
| Problem Solving | Paglutas ng Problema |
| AA triangle similarity | Pagkakatulad ng tatsulok na AA |
| AAA triangle similarity | Pagkakatulad ng tatsulok na AAA |
| AAS triangle congruence | Congruence ng tatsulok na AAS |
| additive property of equality | katangiang additive ng equality |
| algorithm | algorithm |
| apply | i-apply |
| ASA triangle congruence | Congruence ng tatsulok na ASA |
| conjecture | haka-haka |
| constraints | mga restriksiyon |
| construct | bumuo |
| discover | tuklasin |
| dynamic geometry software | software para sa dynamic na geometry |
| explore | galugarin |
| generalization | heneralisasyon |
| inductive reasoning | Inductive na pangangatwiran |
| justify | i-justify |
| parameters | mga parameter |
| reason | mangatwiran |
| truth value | halaga ng katotohanan |
| valid argument | balidong argument |
| Reasoning and Proof | Pangangatwiran at Pagpapatunay |
| AA triangle similarity | Pagkakatulad ng tatsulok na AA |
| AAA triangle similarity | Pagkakatulad ng tatsulok na AAA |
| AAS triangle congruence | Congruence ng tatsulok na AAS |
| analytical proof | analytical proof |
| angle addition postulate | batayan ng pagdagdag ng anggulo |
| ASA triangle congruence | Congruence ng tatsulok na ASA |
| axiom | axiom |
| biconditional | biconditional |
| conclusion | konklusyon |
| conditional statement | conditional na pahayag |
| conjecture | haka-haka |
| conjunction | conjunction |
| contradiction | contradiction |
| contrapositive of a statement | contrapositive ng isang pahayag |
| converse of a statement | converse ng isang pahayag |
| counterexample | counterexample |
| deductive proof | deductive na katunayan |
| deductive reasoning | deductive na pangangatwiran |
| definition | kahulugan |
| disjunction | disjunction |
| dynamic geometry software | software para sa dynamic na geometry |
| equivalence relation | equivalence relation |

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL
GLOSARYO NG GEOMETRY - HIGH SCHOOL NA ANTAS

| ENGLISH / INGLES | TAGALOG |
|--|--|
| Euclidean Parallel Postulate | Euclidean Parallel Postulate |
| explain | ipaliwanag |
| geometry | geometry |
| hypotenuse and leg triangle congruence | congruence ng hypotenuse at ng binti ng tatsulok |
| hypothesis | hypothesis |
| indirect proof | hindi direktang katunayan |
| inductive reasoning | inductive na pangangatwiran |
| inverse of a statement | kabaliktaran ng pahayag |
| investigate | imbestigahan |
| justify | bigyang katwiran |
| logical equivalence | logical na equivalence |
| negation | negation |
| paragraph proof | Talataang katunayan |
| parallel postulate (s) | (mga) parallel na postulate |
| proof | katunayan |
| proof by contradiction | katunayan sa pamamagitan ng pagkakasalungatan |
| proportional | proportional |
| Pythagorean Theorem | Pythagorean na Teorama |
| reason | mangatwiran |
| reflexive property of equality | reflexive property ng equality |
| SAS triangle congruence | congruence ng tatsulok na SAS |
| SAS similarity theorem | pagkakatulad ng SAS na teorama |
| SSS triangle congruence | congruence ng tatsulok na SSS |
| substitution property | substitution property |
| subtraction property of equality | subtraction na katangian ng equality |
| symmetric property of equality | symmetric na katangian ng equality |
| theorem | teorama |
| transformational proof | transformational na pagpapatunay |
| transitive property of equality | transitive na katangian ng equality |
| truth value | halaga ng katotohanan |
| two-column proof | two-column proof |
| undefined terms | mga term na undefined |
| union of sets | union ng mga set |
| valid argument | balidong argument |
| Communication | Komunikasyon |
| axiom | axiom |
| bi-conditional | bi-conditional |
| compound statement | compound na pahayag |
| conclusion | conclusion |
| conjecture | haka-haka |
| conjunction | conjunction |
| contrapositive of a statement | contrapositive ng isang pahayag |
| definition | kahulugan |
| disjunction | disjunction |
| explain | ipaliwanag |

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| ENGLISH / INGLES | TAGALOG |
|--------------------------------|--------------------------------------|
| hypothesis | hypothesis |
| Inverse of a statement | Kabaliktaran ng pahayag |
| justify | bigyang katwiran |
| negation | negation |
| theorem | teorama |
| truth value | halaga ng katotohanan |
| undefined terms | mga term na undefined |
| Connections | Mga Koneksyon |
| apply | i-apply |
| compound locus | compound locus |
| discover | tuklasin |
| intersection of sets | intersection ng mga set |
| investigate | imbestigahan |
| spatial relationships | mga spatial na relasyon |
| union of sets | union ng mga set |
| Representation | Representasyon |
| analytical geometry | analytical geometry |
| coordinate geometry | coordinate geometry |
| definition | mangatwiran |
| Euclidean geometry | Euclidean na geometry |
| function | function |
| graphical representation | graphical na representasyon |
| locus of points | locus ng puntos |
| logical equivalence | logical na equivalence |
| non-Euclidean geometry | hindi Euclidean na geometry |
| three dimensional space | three dimensional na espasyo |
| transformational geometry | transformational na geometry |
| two dimensional space | two dimensional na espasyo |
| Geometric Relationships | Mga Geometry ng Relasyon |
| AA triangle similarity | Pagkakatulad ng tatsulok na AA |
| AAA triangle similarity | Pagkakatulad ng tatsulok na AAA |
| AAS triangle congruence | Congruence ng tatsulok na AAS |
| ASA triangle congruence | Congruence ng tatsulok na ASA |
| absolute value | absolute na halaga |
| acute angle | acute na anggulo |
| acute triangle | acute na tatsulok |
| adjacent angles | mga katabing anggulo |
| algebraic representation | algebraic na representasyon |
| alternate interior angles | alternatibong panloob na mga anggulo |
| altitude | altitude |
| analytical geometry | analytical na geometry |
| angle | anggulo |
| angle bisector | bisector ng anggulo |

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| ENGLISH / INGLES | TAGALOG |
|-------------------------------------|---|
| angle measure | sukat ng anggulo |
| apothem | apothem |
| arc | arko |
| arc measure | sukat ng arko |
| area | area |
| axis of symmetry | axis ng symmetry |
| base | base |
| betweenness | betweenness |
| bisector | bisector |
| center of a circle | sentro ng bilog |
| center of a regular polygon | sentro ng isang regular na polygon |
| center of gravity | sentro ng gravity |
| central angle | gitnang anggulo |
| central angle of a regular polygon | gitnang anggulo ng isang regular na polygon |
| centroid | centroid |
| chord | chord |
| circle | bilog |
| circumcenter | circumcenter |
| circumcircle (about a polygon) | circumcircle (tungkol sa polygon) |
| circumference | circumference |
| collinear points | mga collinear na puntos |
| common tangents | mga katulad na tangent |
| complementary angles | mga complementary na anggulo |
| concave polygon | concave na polygon |
| concentric circles | mga concentric na bilog |
| concurrent lines | mga concurrent na linya |
| cone | cone |
| congruence | congruence |
| conic sections | mga conic na seksyon |
| constant of proportionality | constant ng proportionality |
| convex polygon | convex na polygon |
| coordinate geometry | coordinate na geometry |
| coplanar | coplanar |
| corresponding angles | mga corresponding na anggulo |
| corresponding parts | mga corresponding na bahagi |
| corresponding side | corresponding na gilid |
| cross-section | cross-section |
| cube | cube |
| cylinder | silindro |
| definition | mangatwiran |
| diagonal | diagonal |
| diameter | diyametro |
| dihedral angle | dihedral angle |
| distance | layo |
| distance between a point and a line | layo sa pagitan ng isang punto at linya |
| distance between two parallel lines | layo sa pagitan ng dalawang magkahilerang linya |

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| ENGLISH / INGLES | TAGALOG |
|-------------------------------|-------------------------------------|
| distance between two points | layo sa pagitan ng dalawang puntos |
| dodecahedron | dodecahedron |
| ellipse | ellipse |
| endpoint | endpoint |
| equiangular | equiangular |
| equidistant | magkasing-layo |
| equilateral triangle | equilateral na tatsulok |
| equilateral polygon | equilateral na polygon |
| Euclidean Geometry | Euclidean na Geometry |
| Euclidean Parallel Postulate | Euclidean Parallel Postulate |
| exterior | panlabas |
| exterior angle | panlabas na anggulo |
| external secant segment | panlabas na secant na bahagi |
| face of a polyhedron | harapan ng isang polyhedron |
| foot of an altitude | sukat sa talampakan ng kataasan |
| function | function |
| geometric mean | geometric na mean |
| geometry | geometry |
| golden ratio | gintong ratio |
| golden rectangle | gintong rektanggulo |
| great circle | great circle |
| hemisphere | hemisphere |
| Heron's formula | formula ni Heron |
| hexagon | hexagon |
| hypotenuse | hypotenuse |
| icosahedron | icosahedron |
| in center of a polygon | nasa gitna ng polygon |
| inclination | inclination |
| inscribed angle | inscribed na anggulo |
| inscribed circle | inscribed na bilog |
| intercepted arc | intercepted na arko |
| intercepts | intercepts |
| interior | panloob |
| intersecting lines | mga nag-i-intersect na linya |
| isosceles trapezoid | isosceles na trapezoid |
| isosceles triangle | isosceles na tatsulok |
| kite | saranggola |
| lateral area of a prism | lateral na area ng prism |
| lateral edge | lateral na gilid |
| lateral face | lateral na harap |
| lateral surface | lateral na surface |
| legs of a right triangle | mga binti ng kanang tatsulok |
| legs of a isosceles trapezoid | mga binti ng isosceles na trapezoid |
| length | haba |
| line | linya |
| line segment | bahagi ng linya |

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| ENGLISH / INGLES | TAGALOG |
|------------------------------------|--|
| linear pair | pares na linya |
| locus of points | locus ng puntos |
| major arc | major arc |
| mean proportional | mean proportional |
| measure of an angle | sukat ng anggulo |
| measure of an arc | sukat ng arko |
| median of a trapezoid | median ng trapezoid |
| median of a triangle | median ng tatsulok |
| midpoint | gitnang puntos |
| mid-segment | gitna ng bahagi |
| minor arc | minor na arko |
| n-gon | n-gon |
| non-collinear | hindi magka-collinear |
| non-coplanar | hindi magka-coplanar |
| non-Euclidean geometry | hindi Euclidean na geometry |
| obtuse angle | obtuse na anggulo |
| obtuse triangle | obtuse na tatsulok |
| octagon | octagon |
| octahedron | octahedron |
| opposite rays | magkabilang mga sinag |
| orthocenter | orthocenter |
| orthogonal | orthogonal |
| parabola | parabola |
| parallel line segments | magkahilerang mga bahagi ng linya |
| parallel lines | magkahilerang mga linya |
| parallelepiped | parallelepiped |
| parallelogram | parallelogram |
| pentagon | pentagon |
| perimeter | perimeter |
| perpendicular bisector | perpendicular na tagahati |
| perpendicular bisector concurrence | perpendicular na tagahating concurrence |
| perpendicular lines | mga perpendicular na linya |
| perpendicular planes | mga perpendicular na plane |
| pi | pi |
| plane | plane |
| point | punto |
| point of concurrency | punto ng concurrency |
| point of tangency | punto ng tangency |
| polygon | polygon |
| polyhedron | polyhedron |
| prism | prisma |
| product property of proportions | katangian ng produkto ng mga proporsiyon |
| proportional | proporsiyonal |
| pyramid | pyramid |
| Pythagorean Theorem | Pythagorean na Teorama |
| quadrant | quadrant |

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| ENGLISH / INGLES | TAGALOG |
|------------------------------------|-----------------------------------|
| quadratic equation | quadratic na equation |
| quadratic formula | quadratic na formula |
| quadrilateral | quadrilateral |
| radius | radius |
| ratio | ratio |
| ray | sinag |
| real numbers | mga real na numero |
| rectangle | rektanggulo |
| rectangular solid | solidong rektanggulo |
| regular polygon | regular na polygon |
| remote interior angles | mga remote na panloobang anggulo |
| rhombus | rhombus |
| right angle | kanang anggulo |
| right triangle | kanan na tatsulok |
| scalene triangle | scalene na tatsulok |
| secant | secant |
| segment | bahagi |
| segment of a circle | bahagi ng bilog |
| semicircle | kalahating bilog |
| set | set |
| similar polygons | mga magkakatulad na polygon |
| similar triangles | mga magkatulad na tatsulok |
| simple quadrilateral | simpleng quadrilateral |
| skew lines | mga skew na linya |
| slant height | taas ng slant |
| slope | slope |
| sphere | globo |
| square | parisukat |
| supplementary angles | mga suplementong anggulo |
| surface area | area ng surface |
| tangent segment | tangent na bahagi |
| tangent to a circle | tangent sa isang bilog |
| tessellation | tessellation |
| tetrahedron | tetrahedron |
| three-dimensional space | three-dimensional na espasyo |
| topology | topology |
| transformational geometry | transformational na geometry |
| transversal | transversal |
| trapezoid | trapezoid |
| triangle | tatsulok |
| triangle inequality | inequality ng tatsulok |
| trigonometry of the right triangle | trigonometry ng kanan na tatsulok |
| two-dimensional space | two-dimensional na espasyo |
| vector | vector |
| vertex | vertex |
| vertical angles | mga vertical na anggulo |

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| ENGLISH / INGLES | TAGALOG |
|------------------------------------|---|
| vertical line | vertical na linya |
| volume | volume |
| x-axis | x-na axis |
| x-intercept | x-intercept |
| y-axis | y-axis |
| y-intercept | y-intercept |
| z-axis | z-axis |
| Constructions | Mga konstruksiyon |
| angle bisector | bisector ng anggulo |
| bisector | bisector |
| center of a regular polygon | sentro ng isang regular na polygon |
| center of gravity | sentro ng gravity |
| circumcircle (about a polygon) | circumcircle (tungkol sa polygon) |
| compass | compass |
| construct | bumuo |
| dynamic geometry software | software para sa dynamic na geometry |
| perpendicular bisector | perpendicular na tagahati |
| perpendicular bisector concurrence | perpendicular na tagahating concurrence |
| perpendicular lines | mga perpendicular na linya |
| straightedge | straightedge |
| Locus | Locus |
| circle | bilog |
| compound locus | compound locus |
| ellipse | ellipse |
| hyperbola | hyperbola |
| locus of points | locus ng puntos |
| parabola | parabola |
| Formal and Informal Proofs | Mga Pormal at Impormal na Pagpapatunay |
| AA triangle similarity | Pagkakatulad ng tatsulok na AA |
| AAA triangle similarity | Pagkakatulad ng tatsulok na AAA |
| AAS triangle congruence | Congruence ng tatsulok na AAS |
| ASA triangle congruence | Congruence ng tatsulok na ASA |
| angle addition postulate | batayan ng pagdagdag ng anggulo |
| axiom | axiom |
| bi-conditional | bi-conditional |
| conclusion | konklusyon |
| conditional statement | kondisyonal na pahayag |
| conjecture | haka-haka |
| conjunction | conjunction |
| contradiction | pagkakasalungatan |
| contrapositive of a statement | contrapositive ng isang pahayag |
| converse of a statement | converse ng isang pahayag |
| counterexample | counterexample |

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| ENGLISH / INGLES | TAGALOG |
|--|--|
| deductive reasoning | deductive na pangangatwiran |
| definition | mangatwiran |
| disjunction | disjunction |
| dynamic geometry software | software para sa dynamic na geometry |
| equivalence relation | equivalence relation |
| Euclidean Parallel Postulate | Euclidean Parallel Postulate |
| hypotenuse and leg triangle congruence | congruence ng hypotenuse at ng binti ng tatsulok |
| indirect proof | hindi direktang katunayan |
| inductive reasoning | inductive na pangangatwiran |
| inverse of a statement | kabaliktaran ng pahayag |
| justify | bigyang katwiran |
| logical equivalent | logical na equivalent |
| negation | negation |
| parallel postulate (s) | (mga) parallel postulate |
| postulate | postulate |
| proof | katunayan |
| proof by contradiction | katunayan sa pamamagitan ng pagkakasalungatan |
| Pythagorean Theorem | Pythagorean na Teorama |
| reason | mangatwiran |
| reflexive property of equality | reflexive property ng equality |
| SAS triangle congruence | SAS congruence ng tatsulok |
| SAS similarity Theorem | SAS similarity theorem |
| SSS triangle congruence | SSS congruence ng tatsulok |
| substitution property | substitution property |
| subtraction property of equality | subtraction property ng equality |
| symmetric property of equality | symmetric property ng equality |
| theorem | teorama |
| transitive property of equality | transitive property ng equality |
| transformational proof | transformational na pagpapatunay |
| truth value | halaga ng katotohanan |
| two-column proof | two-column na pagpapatunay |
| undefined terms | mga term na undefined |
| union of sets | union ng mga set |
| valid argument | balidong argument |
| Transformational Geometry | Transformational Geometry |
| axis of symmetry | axis ng symmetry |
| center of a dilation | sentro ng dilation |
| center of a rotation | sentro ng rotation |
| clockwise (orientation) | clockwise (oryentasyon) |
| composition | komposisyon |
| constant of proportionality | constant ng proportionality |
| contraction | contraction |
| counterclockwise (orientation) | counterclockwise (oryentasyon) |
| dilation | dilation |
| direct transformation | direktang transformation |

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| ENGLISH / INGLES | TAGALOG |
|---------------------------------------|--|
| domain | domain |
| dynamic geometry software | software para sa dynamic na geometry |
| fixed point | fixed point |
| function | function |
| function notation for transformations | function notation para sa mga transformation |
| glide reflection | glide reflection |
| group | pangkat |
| half-turn | kalahating-pihit |
| identity | identity |
| image | imahe |
| inverse of a transformation | inverse ng transformation |
| isometric | isometric |
| mapping (function) | mapping (function) |
| opposite transformation | opposite na transformation |
| orientation | oryentasyon |
| pre-image | pre-image |
| reflection | reflection |
| rotation | pagpihit |
| rotational symmetry | rotational symmetry |
| symmetry | symmetry |
| tessellation | tessellation |
| transformation | transformation |
| transformational geometry | transformational na geometry |
| translation | translation |
| transformational geometry | transformational na geometry |
| translation | translation |
| Coordinate Geometry | Coordinate Geometry |
| abscissa | abscissa |
| analytical geometry | analytical na geometry |
| analytical proof | analytical na pagpapatunay |
| Cartesian coordinates | Mga Cartesian coordinate |
| Cartesian plane | Cartesian plane |
| center-radius equation of circle | center-radius equation ng bilog |
| coordinate | coordinate |
| coordinate geometry | coordinate na geometry |
| coordinate plane | coordinate plane |
| distance between two points | layo sa pagitan ng dalawang puntos |
| origin | origin |
| point slope equation of a line | point slope equation ng linya |
| rectangular coordinates | mga rektanggulong coordinate |
| slope - intercept equation of a line | slope - intercept equation ng linya |
| three-dimensional space | three-dimensional na espasyo |
| two-dimensional space | two-dimensional na espasyo |
| vector | vector |
| x-axis | x-axis |

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| ENGLISH / INGLES | TAGALOG |
|-------------------------|----------------|
| x-intercept | x-intercept |
| y-axis | y-axis |
| y-intercept | y-intercept |
| z-axis | z-axis |
| | |
| | |
| | |
| | |
| | |