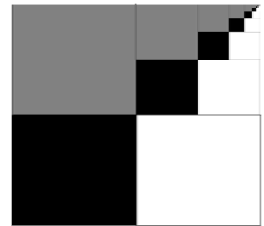
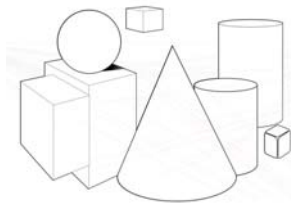


Glossary

High School Level Geometry Glossary

English / Wolof



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





THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

P-16

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GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
Problem Solving	Saafara porobelem
AA triangle similarity	AA tiryangal yu niroo
AAA triangle similarity	AAA tiryangal yu niroo
AAS triangle congruence	AAS tiryangal yu niroo isometiri
additive property of equality	Poropiriyete tollo bu boole
algorithm	Resilta kalkiil ci boole nonbur
apply	jëf
ASA triangle congruence	ASA tiryangal yu niroo isometiri
conjecture	Ipotees bi gnu mënuta werifie
constraints	Jaffe jaffe
construct	poose
discover	dekuwirir
dynamic geometry software	Losiceelu sometiri dinaamiik
explore	Espolore
generalization	seneraalisason
inductive reasoning	Resonma bu lallu espiiriyans
justify	Sustifiye
parameters	parameeturu
reason	Li waral
truth value	Waleer dëgg
valid argument	Lay bu deggu
Reasoning and Proof	Resonma ak përew
AA triangle similarity	AA tiryangal yu niroo
AAA triangle similarity	AAA tiryangal yu niroo
AAS triangle congruence	AAS tiryangal yu niroo isometiri
analytical proof	Jangatt përew
angle addition postulate	Waax te do puruwe boole angaal
ASA triangle congruence	ASA tiryangal yu niroo isometiri
axiom	aksiyom
biconditional	ɲaar r kondiison
conclusion	jeexanteel
conditional statement	Waaxu kondiison
conjecture	Tandus
conjunction	Luy boole gnaar poroposison
contradiction	Lu andul
contrapositive of a statement	Xaax du deggu wull
converse of a statement	Xeejoo xaax
counterexample	Eksaampul bu andul
deductive proof	Përew bu laalu ci ispiiriyas
deductive reasoning	Resonma bu lallu ci ispiiriyas
definition	Firndeel
disjunction	xaajalle

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
dynamic geometry software	Losiceelu sometiri dinaamiik
equivalence relation	Relaason yumengo
Euclidean Parallel Postulate	Xaax buamul Përëw bu ekkilid ci paraleel
explain	leeral
geometry	soometiri
hypotenuse and leg triangle congruence	Ipoteniis ak tank tiriyaangal
hypothesis	ipotees
indirect proof	Përëw bu jubbul
inductive reasoning	Resonma bu lalu ci ispiriyas
inverse of a statement	Wax bu dëpp
investigate	Gëstu
justify	Sustifiye
logical equivalence	mengalay bu losiik
negation	Weddi
paragraph proof	Përëw paragarraf
parallel postulate (s)	Ay wax ci paraleel
proof	Përëw
proof by contradiction	Përëwu andul
proportional	xaaj
Pythagorean Theorem	Xalaatu pitaagoor
reason	waral
reflexive property of equality	Xalaat ci poropiriyete tollole
SAS triangle congruence	SAS tiriyaangal yu nirooisometiri
SAS similarity theorem	SAS xalaat yu niroo
SSS triangle congruence	SSS tiriyaangal yu niroo isometiri
substitution property	Poropiriye soppi
subtraction property of equality	Tollo poropiriyete wangni
symmetric property of equality	Tollo piriyorite simetirikk
theorem	xalaat
transformational proof	përëw soppi
transitive property of equality	poropiriyete ci toloo bu taransitiw
truth value	Waleer bu dëggu
two-column proof	Përëw ñaar koloon
undefined terms	Ay Teerm yu amul app
union of sets	Mboolo ansanbul
valid argument	Lay bu waliid
Communication	Wax
axiom	Poroposiison bu gnu Puruwe wul
bi-conditional	ñaar koondiison
compound statement	Afiirmason bu boole
conclusion	jeexantal
conjecture	Tandus
conjunction	boole

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
contrapositive of a statement	Luy xeedi waax
definition	Firndel
disjunction	xaaj
explain	leeral
hypothesis	ipotees
Inverse of a statement	Wax bu dëpp
justify	Sustifiye
negation	weedi
theorem	Teworeem
truth value	Waleer dëgg
undefined terms	Teermu bi gnu firii wul
Connections	Ay lonkoloo
apply	Jëf
compound locus	Palaasu socantaan yu boole
discover	Dekuwiriir
intersection of sets	Dajje kay ansanbul yi
investigate	Gëstu
spatial relationships	Lonkoo ci jaw ji
union of sets	Boole ansanbul yi
Representation	Reperesantaason
analytical geometry	Jangatu soometiri
coordinate geometry	Soometiri bu lonkoo
definition	Firndel
Euclidean geometry	Soometiri ekaliid
function	foonkson
graphical representation	Reperesantason nataal
locus of points	Pognu palaasu socantaan yi
logical equivalence	Mengalay bu losiik
non-Euclidean geometry	Lu dul Soometiri ekaliid
three dimensional space	Dimaason gneet bërëp
transformational geometry	Soometiri buy soppi
two dimensional space	Dimaason ñaari bërëp
Geometric Relationships	Lonkoloo soometiri
AA triangle similarity	AA tiriyangal yu niroo
AAA triangle similarity	AAA tiriyangal yu niroo
AAS triangle congruence	AAS tiriyangal tu niroo isometiri
ASA triangle congruence	ASA tiriyangal yu niroo isometiri
absolute value	Waleer absoli
acute angle	Angal eggì
acute triangle	Tiriyangal eggì
adjacent angles	Angal bu jubb

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
algebraic representation	Reperesantason alseebur
alternate interior angles	Soppi Beneenn angal bu ci biir
altitude	Gudday
analytical geometry	Jangatu soometiri
angle	angal
angle bisector	Röd buy xaay angal ci gnaar angal yu tolloo
angle measure	Naatt angal
apothem	apoteem
arc	Ark
arc measure	naat ark
area	bërëp
axis of symmetry	Axu simetiri
base	baas
betweenness	diggante
bisector	Luy xaaj gnaar paccyu tolloo
center of a circle	Diggu seerkal
center of a regular polygon	Diggu poligoon regiliye
center of gravity	Pogne bu am sollo
central angle	Angal bi digg
central angle of a regular polygon	Angal bi digg bu polgoon reggile
centroid	santoroyid
chord	buum
circle	Wër
circumcenter	Tuuru digg bi
circumcircle (about a polygon)	Tuuru seerkal
circumference	Tuuru primeeter
collinear points	Pognu kolineer
common tangents	Yuy daaje ci been pogn
complementary angles	Angal koopelemateer
concave polygon	Poligoon buy forme paax
concentric circles	Seekal yu boku digg
concurrent lines	Röd yu tegalloo
cone	koon
congruence	Niroo siimetiri
conic sections	Pogne bu lonkoo koon yi
constant of proportionality	Gnakum soppi xaaj yi
convex polygon	Poliigoon bu siifaasam wër jëm biti
coordinate geometry	Soometiri bu lonkoo
coplanar	kopalaneer
corresponding angles	Angal yu jakkarlo
corresponding parts	Partii yu jakkarlo
corresponding side	Koote yu jakkarlo
cross-section	Pogne yi fugnu dajje

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
cube	kiib
cylinder	siliindar
definition	Firndel
diagonal	jagonaal
diameter	jameeter
dihedral angle	Figiir bignuy defar ci gnaar xaaju palan
distance	gudday
distance between a point and a line	Gudday diggante pogne ak rëd
distance between two parallel lines	Gudday diggante diggante nyaari paraleel
distance between two points	Gudday diggante diggante nyaari pogne
dodecahedron	Soliid bu am fuk ak nyaari
ellipse	Kurbu bu owaal
endpoint	Pogne bu mujju
equiangular	Angal yu toollo
equidistant	Diggante yu toollo
equilateral triangle	Tiriyangal bu wett yi yëpp toollo
equilateral polygon	Poligoon bu wett yi toollo
Euclidean Geometry	Soometiri Ekkaliid
Euclidean Parallel Postulate	Waxu Ekaalid ci rëd yu bok fi gnu jëm
exterior	biti
exterior angle	Angallu biti
external secant segment	Seekma bu bitti buy xaj duraat
face of a polyhedron	Faasu poliyedoron
foot of an altitude	Tanku gudday ci suuf jëm kaw
function	foonkson
geometric mean	Matereellu soometiri
geometry	soometiri
golden ratio	Lonkoo bu oor ci diggante gnaari koom
golden rectangle	Rektangal bu oor
great circle	Seerkal bu emisfeer
hemisphere	Xaaju emisfeer
Heron's formula	Formiillu Heeroon
hexagon	eksagoon
hypotenuse	ipotiniis
icosahedron	ikoosayedre
in center of a polygon	Diggu poligoon
inclination	pant
inscribed angle	Angal inskiri
inscribed circle	Seerkal inskiri
intercepted arc	Ark yu daaje
intercepts	Yu daaje
interior	biir
intersecting lines	Rëd yu kuraase

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
isosceles trapezoid	Taraapees bu wett yu toollo
isosceles triangle	Tiriyangal bu wett yu tolo
kite	laaff
lateral area of a prism	Siirfaas lataraal bu piriism
lateral edge	Robooru lataraal
lateral face	Faasu lataraal
lateral surface	Sirfaasu lataraal
legs of a right triangle	Tanku angal dura
legs of a isosceles trapezoid	Tanku tapees bu isooseel
length	gudday
line	Röd
line segment	Rëddu semma
linear pair	Röd bu impeer
locus of points	Pognu lokiis
major arc	Weengum perecipaal
mean proportional	Matereel xaaj
measure of an angle	Naatum angal
measure of an arc	Naatum weeng
median of a trapezoid	Mijaanu taraapees
median of a triangle	Mijaanu tiriyaangal
midpoint	Pognu digg
mid-segment	Xaaj sekmaa
minor arc	Ark bu ndaw
n-gon	Een gon
non-collinear	Bu kolineerul
non-coplanar	Bu koopalaneerul
non-Euclidean geometry	Bu dul soometiri Ekaliid
obtuse angle	Angal bu ëpp juroom gneent fuku
obtuse triangle	Tiriyangal bu angalam ëpp juroom gneent fuku
octagon	Figiir bu am juroo gneet wett
octahedron	Figiir bu am juroo gneet faas yu tiriyangal
opposite rays	Reyon yu dëppo
orthocenter	ortosaantar
orthogonal	Luy forme angal dura
parabola	Kurbu yu sen gudday tolo ci pognum digg bi
parallel line segments	Sekma bu paraleel
parallel lines	röd yu paraleel
parallelepiped	paralleelopipeet
parallelogram	paralleellogaraam
pentagon	pantagoon
perimeter	Perimeter
perpendicular bisector	Biseektoor bu peerpandikileer
perpendicular bisector concurrence	konkiraansu biseektoor bu peerpandikileer

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
perpendicular lines	Rëd yu peerpandikileer
perpendicular planes	Palan yu peerpandikileer
pi	pii
plane	abiyon
point	pogne
point of concurrency	Pognu konkiraans
point of tangency	Pognu tansans
polygon	poligoon
polyhedron	poliyeedeer
prism	pirismu
product property of proportions	Porodii poropiriete xaaj
proportional	xaaj
pyramid	piraamitt
Pythagorean Theorem	Teworeem Pitaagoor
quadrant	kaadaran
quadratic equation	Ikuwason bu kaare
quadratic formula	Formiilu kaare
quadrilateral	Figiir bu am gneeti wett yu tolo
radius	reyon
ratio	raasiyo
ray	reyon
real numbers	Nonburu reyel
rectangle	rektangal
rectangular solid	rektangal bu dëgër
regular polygon	Poligoon bu dul soppi
remote interior angles	Angal bu sorii ci biir
rhombus	losaans
right angle	Angal dura
right triangle	Tiriyangal ikkilateraaf
scalene triangle	Tiriyangal bu gneet wett yi tolo wul
secant	Rëd bu daag ci pogne yu bëri
segment	sekma
segment of a circle	Sekma wu li wër
semicircle	Xaaju li wër
set	seet
similar polygons	Poliigoon yu niro
similar triangles	Tiriyangal yu niroo
simple quadrilateral	Kuwadirilateer yu niroo
skew lines	Rëd bu pant
slant height	Ootoor bu pant
slope	pant
sphere	esfeer
square	ñeenti angal

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
supplementary angles	Angal supelemateer
surface area	Sirfaasu bërëp
tangent segment	Sekma bu jubb
tangent to a circle	Jubb ci seerkal
tessellation	teeselaason
tetrahedron	ɲeet edoroon
three-dimensional space	ɲeet espaas yu maagg
topology	Jangum poropiriyete kalkiil
transformational geometry	Soometiri buy soppi
transversal	transwersaal
trapezoid	taraapees
triangle	tiriyangal
triangle inequality	ɲakum tolo tiriangal
trigonometry of the right triangle	Tirigonometiri bu angal dura
two-dimensional space	Gnaari espaas yu maagg
vector	weektoor
vertex	Werteks
vertical angles	Angal bu wertikaal
vertical line	Rëd wertikaal
volume	woliim
x-axis	Aks-x
x-intercept	Interseet-x
y-axis	Aks-y
y-intercept	Interseet-y
z-axis	Aks-z
Constructions	Ay defar
angle bisector	Angalu bisektoor
bisector	bisektoor
center of a regular polygon	Santuru poligoon reguliye
center of gravity	Santuru garawite
circumcircle (about a polygon)	Turu seerkal
compass	busool
construct	defar
dynamic geometry software	Losiseel soometiri dinaamiik
perpendicular bisector	Biseektoor peerpandikileer
perpendicular bisector concurrence	Konkirans bisektoor peerpandikileer
perpendicular lines	Rëd peerpandikileer
straightedge	Kaare bu juubb

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
Locus	Aypogne
circle	seerkal
compound locus	Pogne yu konpoose
ellipse	illips
hyperbola	ipeerboole
locus of points	Ay pogne
parabola	parabool
Formal and Informal Proofs	Perewu foormel ak informel
AA triangle similarity	AAA tiriyangal yu niroo
AAA triangle similarity	AAA tiriyangal yu niroo
AAS triangle congruence	AAS tiriyangal yu niroo isoometiri
ASA triangle congruence	ASA tiriyangal yu niroo isoometiri
angle addition postulate	Waaxu boole angal
axiom	aksiyom
bi-conditional	ɲaar kondiison
conclusion	jeexantal
conditional statement	Kondison wax
conjecture	Tandus
conjunction	lonkoo
contradiction	Li andul
contrapositive of a statement	Weddi waax
converse of a statement	Kontereeru wax
counterexample	Misaal bu andul
deductive reasoning	Resonma bu lallu ci isperiyans
definition	Firndel
disjunction	xaaj
dynamic geometry software	Losiseel soometiri dinamik
equivalence relation	Lonkolo bu mengo
Euclidean Parallel Postulate	Wax lonkolo paraleel yu tollo
hypotenuse and leg triangle congruence	Ipotenus ak tanku tiriyangal yu niroo isoometiri
indirect proof	Përëw bu jubbul
inductive reasoning	Resonma lallu ci ispiriyans
inverse of a statement	Dëp wax
justify	Sustifiye
logical equivalent	Mengalo bu losiik
negation	weedi
parallel postulate (s)	Ay wax ci pararaleel
postulate	Wax
proof	përëw
proof by contradiction	Përëw weedi
Pythagorean Theorem	Teworeemu pitaagoor
reason	waral

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
reflexive property of equality	Xalaatu poropiriye bu tolo
SAS triangle congruence	SAS tiryangal yu niroo isometiri
SAS similarity Theorem	SAS xalaat yu niroo
SSS triangle congruence	SSS tiryangal yu niroo isometiri
substitution property	Ranpalase poropiriyete
subtraction property of equality	Poropiriyete tolo bu wannji
symmetric property of equality	Poropiriyete simetiri bu tolo
theorem	Teworeem
transitive property of equality	Taransiif porpiriyete bu tolo
transformational proof	Përëw soppi
truth value	Waleer degg
two-column proof	Përëw ñaari koloon
undefined terms	Teerm yi gnu fiiri wul
union of sets	Mboolo seett
valid argument	Lay bu waliid
Transformational Geometry	Soppi soometiri
axis of symmetry	Aksu simetiri
center of a dilation	Diggu taweeku
center of a rotation	Diggu wër
clockwise (orientation)	Direkson montar
composition	Boole
constant of proportionality	ñak soppi xaaj
contraction	boole
counterclockwise (orientation)	Dëppo ak direkson montar
dilation	taweeku
direct transformation	Soppi bu jubb
domain	bërëp
dynamic geometry software	Slosiseel soometiri bu dinamiik
fixed point	Pogne bu dul buuse
function	foonkson
function notation for transformations	foonkson notaason ci soppi
glide reflection	Galaayd buy yobbu leer
group	Kureel
half-turn	Genawall wër
identity	Ranje
image	nataal
inverse of a transformation	Dëp soppi
isometric	isometiri
mapping (function)	(Njariinj) kaart
opposite transformation	Kontereer soppi
orientation	jubblu
pre-image	Laata nataal

GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	WOLOF
reflection	Yobbu leer
rotation	wër
rotational symmetry	simetiri bu xeel muna nangu
symmetry	simetiri
tessellation	teselaason
transformation	soppite
transformational geometry	Soppi sometiri
translation	Soppi ci lakk
transformational geometry	Soppi soometiri
translation	Soppi ci lakk
Coordinate Geometry	Sometiri bu lonkoo
abscissa	apsiis
analytical geometry	Jangatum soometiri
analytical proof	Jangatum përew
Cartesian coordinates	Lonkolo kaateesiyen
Cartesian plane	palan wu kaateesiyen
center-radius equation of circle	Ikuwason bu santuru reyon bu seerkal
coordinate	lonkoo
coordinate geometry	Sometiri bu lonko
coordinate plane	Lonkoo palan
distance between two points	Gudday digante gnaari pogne
origin	orisiin
point slope equation of a line	Ikuwason wu pognu pant bu rëd
rectangular coordinates	Lonkoo bu rektangal
slope - intercept equation of a line	Ikuwason inteerset pant bu rëd
three-dimensional space	Dimason wu ñeet espaas
two-dimensional space	Dimason wu gnaar espaas
vector	wektor
x-axis	Aks-x
x-intercept	Inteerset-x
y-axis	Aks-x
y-intercept	Inteerset-y
z-axis	Aks-z

NYS Grades 9 – 12 Math Terms Addenda

Common Core Math Standard	ENGLISH	WOLOF
N-RN.B.3	non-zero rational number	limukaayu xelu bu bokkal ak neen
A-SSE.A.1	difference of squares, example: $(a^2 - b^2)$	wuuteek ñeenti koñ, misaal: $(a^2 - b^2)$
A-SSE.A.1	square of a difference, example: $(a - b)^2$	ñeenti koñi wuute, misaal: $(a - b)^2$
A-SSE.B.3	equivalent monthly interest rate	njègu ñjèriñu weer bu tolloo
A-CED.A.1	exponential equation	ekuwaasioŋ eksponasiyel
A-CED.A.3	non-viable options (inequalities)	tànnéef yu baaxatul (ay ñàkk-tolloo)
A-CED.A.3	viable options (inequalities)	tànnéef yu baax (ay ñàkk-tolloo)
A-REI.A.1	viable argument	tegtal yu baax
A-REI.D.12	half-plane	genwàlu palaŋ
A-REI.D.11	logarithm function	man-manu logarithm
F-IF.C.8	piece-wise defined function	man-man buñ tekki cig pàcc
F-IF.C.8	step function	man-manu jéego
F-IF.C.8	absolute-value function	man-manu njègu cosaan
F-BF.A.1	recursive process	doxaliin guy delluwaat
F-Bf.B.3	even function	man-manu xew-xew
F-BF.B.3	odd function	man-manu tóol
F-LE.A.1	constant percent rate	njègu cig-ñaar-fukk budul soppeeku
S-ID.B.5	categorical data	njoxey kërale
S-ID.B.5	joint frequency	xél gu boolo
S-ID.B.5	marginal frequency	xél gu marginal
S-ID.B.5	conditional relative frequency	xélug bokk anam
S-ID.B.6	fit of a function	tollole ab man-man
S-ID.B.6	residuals	desits yi
S-ID.C.8	correlation coefficient	kowefisiyaa jokkale
S-ID.C.8	linear fit	tollole jubal
S-ID.C.9	correlation and causation	jokkale ak sababal
S-ID.C8	linearity	jubalaay
S-ID.C8	linear phenomenon	fenomenu jubal
N-Q.A.3	data point	tombu joxe
N.C.N.4	complex plane	palaŋ bu jafe
N.C.N.5	conjugation of complex numbers	limug nimeru yu jafe
N-V.M.6	incidence relationship (payoff)	digante wàccug yoon (payoor)
N-Q.A.2	descriptive modeling	tëgginug xamle
S-REI.A.2	algebraic manipulation	teyeg algebrik

KEYS

N-Q = Number & Quantity

SSE = Seeing Structures in Expressions

RN = Real Number System

BF = Building Functions

ID = Interpreting categorical and quantitative Data

CED = Creating Equations Describing numbers or relationships

REI = Reasoning with Equations & Inequality

VM = Vectors & Matrix quantities

IF = Interpreting Functions

ID = Interpreting categorical and quantitative Data

APR = Arithmetic with Polynomials & Relational expressions