

# Glossary

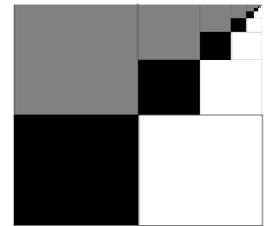
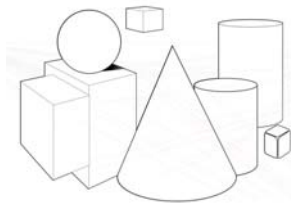
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## High School Level Geometry Glossary

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**English / Uzbek**

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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

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**GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL**

<b>ENGLISH</b>	<b>UZBEK</b>
<b>Problem Solving</b>	<b>Masalalarni yechish</b>
AA triangle similarity	teng tomonli uchburchaklar o'xshashligi
AAA triangle similarity	teng burchakli uchburchaklar o'xshashligi
AAS triangle congruence	uchburchaklarning ikki tomon va teskari tomon bilan o'xshashligi
additive property of equality	tenglikning qo'shimcha xususiyati
algorithm	algoritm
apply	qo'llamq, ko'chirmoq
ASA triangle congruence	uchburchaklarning ikki burchak va bir tomon bilan o'xshashligi
conjecture	taxmin, gipoteza
constraints	cheklovlar
construct	tuzmoq (figurani)
discover	kashf qilmoq
dynamic geometry software	dinamik geometriya ta'minot dasturi
explore	tadqiq qilmoq
generalization	umumlashtirish
inductive reasoning	induktiv xulosa
justify	asoslamoq
parameters	parametrlar
reason	sabab
truth value	haqiqiy qiymat
valid argument	haqiqiy isbotlash
<b>Reasoning and Proof</b>	<b>Asoslash va isbot</b>
AA triangle similarity	teng tomonli uchburchaklar o'xshashligi
AAA triangle similarity	teng burchakli uchburchaklar o'xshashligi
AAS triangle congruence	uchburchaklarning ikki tomon va teskari tomon bilan o'xshashligi
analytical proof	tahliliy isbot
angle addition postulate	burchaklarni qo'shish aksiomasi
ASA triangle congruence	uchburchaklarning ikki burchak va bir tomon bilan o'xshashligi
axiom	aksioma
biconditional	ekivalentga oid
conclusion	xulosa
conditional statement	shartli fikr
conjecture	taxmin, gipoteza
conjunction	konyunksiya
contradiction	ziddiyat
contrapositive of a statement	qarama-qarshi qo'yish orqali fikrlash
converse of a statement	teskari fikr
counterexample	teskari misol
deductive proof	deduksiya yo'li bilan isbotlash
deductive reasoning	deduktiv xulosa
definition	ta'rif

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
disjunction	disyunksiya, bo'lish, parchalash
dynamic geometry software	dinamik geometriya tam'minot dasturi
equivalence relation	ekvivalentlik nisbati
Euclidean Parallel Postulate	Evklidning parallellik aksiomasi
explain	tushuntirmoq
geometry	geometriya
hypotenuse and leg triangle congruence	uchburchaklarning gipotenuza va katet bo'yicha o'xshashligi
hypothesis	gipoteza, taxmin
indirect proof	bilvosita isbot
inductive reasoning	induktiv xulosa
inverse of a statement	teskari fikr
investigate	aniqlamoq
justify	asoslamoq
logical equivalence	mantiqiy ekvivalentlik
negation	inkor qilish
paragraph proof	so'z bilan isbotlash
parallel postulate (s)	parallel to'g'ri chiziqlar to'g'risidagi aksioma
proof	isbot
proof by contradiction	ziddiyatdan kelib chiqib isbotlash
proportional	proporsional
Pythagorean Theorem	Pifagor teoremasi
reason	sabab
reflexive property of equality	tenglikning refleksiv xossasi
SAS triangle congruence	uchburchaklarning ikki tomon va ular orasidagi burchak bo'yicha o'xshashligi
SAS similarity theorem	uchburchaklarning ikki tomon va ular orasidagi burchak bo'yicha o'xshashligi teoremasi
SSS triangle congruence	uchburchaklarning uchta tomon bo'yicha o'xshashligi
substitution property	almashtirish xususiyati
subtraction property of equality	tenglikning ayirish xususiyati
symmetric property of equality	tenglik simmetriyasi
theorem	teorema
transformational proof	o'zgarishni isbotlash
transitive property of equality	tenglikning tranzitiv xususiyati
truth value	haqiqiy qiymat
two-column proof	ikki ustun ko'rinishida isbotlash
undefined terms	noaniq atamalar, noaniq elementlar
union of sets	to'plamlaning birlashuvi
valid argument	haqiqiy isbotlash
<b>Communication</b>	<b>Kommunikatsiya</b>
axiom	aksioma
bi-conditional	ekvivalentli
compound statement	murakkab fikr
conclusion	xulosa
conjecture	taxmin, gipoteza

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
conjunction	konyunksiya
contrapositive of a statement	qarama-qarshi qo'yish orqali fikrlash
definition	ta'rif
disjunction	disyunksiya, bo'lish, parchalash
explain	Tushuntirmoq
hypothesis	gipoteza, taxmin
Inverse of a statement	teskari fikr
justify	asoslamoq
negation	inkor qilish
theorem	teorema
truth value	haqiqiy qiymat
undefined terms	noaniq atamalar, noaniq elementlar
Connections	Bog'langanlik
apply	qo'llamq, ko'chirmoq
compound locus	murakkab lokus
discover	kashf qilmoq
intersection of sets	to'plamlarning kesishuvi
investigate	aniqlamoq
spatial relationships	makon munosabatlari
union of sets	to'plamlaning birlashuvi
Representation	Taqdimot
analytical geometry	analitik geometriya
coordinate geometry	koordinatalar geometriyasi
definition	ta'rif
Euclidean geometry	Evklid geometriyasi
function	Funksiya
graphical representation	grafikali taqdimot
locus of points	nuqtalarning geometrik joyi
logical equivalence	mantiqiy ekvivalentlik
non-Euclidean geometry	Evklidniki bo'lmagan geometriya
three dimensional space	uch o'lchamli fazo
transformational geometry	qayta o'zgartirish geometriyasi
two dimensional space	ikki o'lchamli fazo
Geometric Relationships	Geometrik munosabatlar
AA triangle similarity	teng tomonli uchburchaklar o'xshashligi
AAA triangle similarity	teng burchakli uchburchaklar o'xshashligi
AAS triangle congruence	uchburchaklarning ikki tomon va teskari tomon bilan o'xshashligi
ASA triangle congruence	uchburchaklarning ikki burchak va bir tomon bilan o'xshashligi
absolute value	mutlaq qiymat
acute angle	o'tkir burchak
acute triangle	o'tkir burchakli uchburchak
adjacent angles	yondosh (turdosh) burchaklar

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
algebraic representation	algebraik taqdimot
alternate interior angles	qarama-qarshi ichi burchaklar
altitude	Balandlik
analytical geometry	analitik geometriya
angle	Burchak
angle bisector	burchak bissektrisasi
angle measure	burchakni o'lchash
apothem	Apofema
arc	Yoy
arc measure	yoy o'lchovi
area	maydon
axis of symmetry	simmetriya o'qi
base	asos
betweenness	oraliq, oraliq nisbati
bisector	bissektrisa
center of a circle	aylana markazi
center of a regular polygon	to'g'ri ko'pburchak markazi
center of gravity	og'irlik markazi
central angle	markaziy burchak
central angle of a regular polygon	muntazami ko'pburchakning markaziy burchagi
centroid	ko'ndalang kesimning og'irlik markazi
chord	xorda (asylananiki)
circle	aylana, doira
circumcenter	tavsiflangan aylana markazi
circumcircle (about a polygon)	tavsiflangan aylana (ko'pburchakniki)
circumference	aylana uzunligi
collinear points	umumiy to'g'ri chizig'i bor nuqtalar
common tangents	umumiy urinmalar
complementary angles	qo'shimcha burchaklar
concave polygon	ichga qarab bukilgan ko'pburchak
concentric circles	konsentrik aylanalar
concurrent lines	tutashuvchi chiziqlar
cone	Konus
congruence	o'xshashlik
conic sections	konus kesimi
constant of proportionality	proporsionallik koeffitsiyenti
convex polygon	bo'rtib chiqqan ko'pburchak
coordinate geometry	koordinatalar geometriyasi
coplanar	bir tekisda bo'lgan
corresponding angles	tegishli burchaklar
corresponding parts	tegishli qismlar
corresponding side	tegistli tomon
cross-section	ko'ndalang kesim
Cube	Kub
cylinder	Silindr
definition	ta'rif
diagonal	diagonal

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
diameter	diametr
dihedral angle	ikki qirrali burchak
distance	masofa
distance between a point and a line	nuqta va to'g'ri chiziq orasidagi masofa
distance between two parallel lines	ikki parallel chiziq orasidagi masofa
distance between two points	ikki nuqta orasidagi masofa
dodecahedron	dodekaedr, o'nikkiqirralik
ellipse	ellips
endpoint	so'nggi nuqta (bo'lakniki)
equiangular	tengburchakli
equidistant	teng uzoqlashgan
equilateral triangle	teng tomonli uchburchak
equilateral polygon	teng tomonli ko'pburchak
Euclidean Geometry	Evklid geometriyasi
Euclidean Parallel Postulate	Evklidning parallellik aksiomasi
exterior	tashqi
exterior angle	tashqi burchak
external secant segment	kesuvchi chiziqning tashqi bo'lagi
face of a polyhedron	ko'pburchakning qirras
foot of an altitude	balandlik asosi
Function	funksiya
geometric mean	o'rta geometrik
Geometry	geometriya
golden ratio	oltin nisbat
golden rectangle	tomonlar uzunligi nisbati oltinga teng bo'lgan ko'pburchak
great circle	katta aylananing tashqi tarafi
Hemisphere	yarim shar
Heron's formula	Heron formulasi
Hexagon	oltiburchak
Hypotenuse	gipotenuza
Icosahedron	ikosaedr, yigirmaqirralik
in center of a polygon	ko'pburchak ichiga kiritilgan aylana markazi
Inclination	qiyalik
inscribed angle	Ichki chizilgan burchak
inscribed circle	Ichki chizilgan aylana
intercepted arc	kesilgan yoy
Intercepts	ajratmoq, kesmoq (bo'lakni, yoyni)
interior	Ichki
intersecting lines	o'zaro kesishuvchi to'g'ri chiziqlar
isosceles trapezoid	tengyonli trapetsiya
isosceles triangle	tengyonli uchburchak
kite	«varrak», bir xil uzunlikdagi ikkita kalta tarafi va bir xil uzunlikdagi ikkita uzun tarafi bor to'rtburchak
lateral area of a prism	prizmaning yon yuzasi maydoni
lateral edge	yon tomon
lateral face	yon qirra

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
lateral surface	yon yuza
legs of a right triangle	to'g'ri uchburchak tomonlari
legs of a isosceles trapezoid	tengyonli trapetsiya tomonlari
length	Uzunlik
line	to'g'ri chiziq
line segment	to'g'ri chiziq bo'lagi
linear pair	juft to'g'ri chiziq
locus of points	nuqtalarning geometrik joyi
major arc	ikki yoyning kattasi
mean proportional	o'rta proporsional
measure of an angle	burchak o'lchovi
measure of an arc	yoy o'lchovi
median of a trapezoid	trapetsiya medianasi
median of a triangle	uchburchak medianasi
midpoint	o'rta nuqta
mid-segment	o'rta bo'lak
minor arc	ikki yoyning kichigi
n-gon	n-burchak
non-collinear	umumiy to'g'ri chizig'i bo'lmagan
non-coplanar	bir tekislikda bo'lmagan
non-Euclidean geometry	Evklidniki bo'lmagan geometriya
obtuse angle	o'tmas burchak
obtuse triangle	o'tmas uchburchak
octagon	Sakkizburchak
octahedron	oktaedr, sakkizqirralik
opposite rays	qarama-qarshi nurlar
orthocenter	Ichki chizilgan aylana markazi
orthogonal	to'g'ri burchakli
parabola	Parabola
parallel line segments	parallel to'g'ri chiziqlar bo'laklari
parallel lines	parallel to'g'ri chiziqlar
parallelepiped	Parallelepiped
parallelogram	parallelogramm
pentagon	beshburchak
perimeter	perimetr
perpendicular bisector	o'rtaliq perpendikulyar
perpendicular bisector concurrence	o'rtaliq perpendikulyarni kesib o'tish nuqtasi
perpendicular lines	perpendikulyar to'g'ri chiziqlar
perpendicular planes	perpendikulyar tekisliklar
pi	pi, pi soni
plane	tekislik
point	nuqta
point of concurrency	kesishish nuqtasi
point of tangency	tegish nuqtasi
polygon	kop'rburchak
polyhedron	ko'pqirralik
prism	prizma



## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
product property of proportions	proporsiyalarning hosilasi
proportional	proporsional
pyramid	piramida
Pythagorean Theorem	Pifagor teoremasi
quadrant	kvadrant
quadratic equation	kvadrat tenglama
quadratic formula	kvadrat formula
quadrilateral	to'rt tomonli
radius	radius
ratio	nisbat
ray	nur
real numbers	haqiqiy sonlar
rectangle	To'g'riburchak
rectangular solid	to'g'ri burchakli jism
regular polygon	to'g'ri ko'pburchak
remote interior angles	uzoqlashgan ichki burchaklar
rhombus	romb
right angle	to'g'ri burchak
right triangle	to'g'ri burchakli uchburchak
scalene triangle	teng tomonli bo'lmagan uchburchak
secant	kesuvchi
segment	bo'lak, sektor
segment of a circle	aylana bo'lagi
semicircle	yarim aylana
set	to'plam
similar polygons	o'xshash ko'pburchaklar
similar triangles	o'xshash uchburchaklar
simple quadrilateral	o'xshash to'rtburchak
skew lines	kesishuvchi to'g'ri chiziqlar
slant height	chet qirra balandligi
slope	qiyalik
sphere	sfera
square	kvadrat
supplementary angles	qo'shimcha burchaklar
surface area	yuza maydoni
tangent segment	urinma bo'lagi
tangent to a circle	aylana urinmasi
tessellation	mozaika
tetrahedron	tetraedr, to'rtqirra
three-dimensional space	uch o'lchamli fazo
topology	topologiya
transformational geometry	qayta o'zgartirish geometriyasi
transversal	kesib o'tuvchi
trapezoid	trapetsiya
triangle	uchburchak
triangle inequality	uchburchak tegsizligi
trigonometry of the right triangle	to'g'ri burchakli uchburchak trigonometriyasi

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
two-dimensional space	ikki o'lchamli fazo
vector	vektor
vertex	cho'qqi
vertical angles	vertikal burchaklar
vertical line	vertikal to'g'ri chiziq
volume	hajm
x-axis	x-o'q
x-intercept	koordinatalar boshidagi x o'q bilan kesiluvchi bo'lak
y-axis	y-o'q
y-intercept	koordinatalar boshidagi y o'q bilan kesiluvchi bo'lak
z-axis	z-o'q
Constructions	Geometrik shakllar yasash
angle bisector	burchak bissektrisasi
bisector	bissektrisa
center of a regular polygon	to'g'ri ko'pburchak markazi
center of gravity	og'irlik markazi
circumcircle (about a polygon)	tavsiflangan aylana (ko'pburchakniki)
compass	kompas
construct	yasamoq (figura)
dynamic geometry software	dinamik geometriya tam'minot dasturi
perpendicular bisector	o'rtaliq perpendikulyar
perpendicular bisector concurrence	o'rtaliq perpendikulyarni kesib o'tish nuqtasi
perpendicular lines	perpendikulyar to'g'ri chiziqlar
straightedge	yo'naltiruvchi, lineyka
Locus	Nuqtalarning geometrik joyi, lokus
circle	aylana, doira
compound locus	murakkab lokus
ellipse	ellips
hyperbola	giperbola
locus of points	nuqtalarning geometrik joyi
parabola	parabola
Formal and Informal Proofs	Rasmiy va norasmiy isbotlar
AA triangle similarity	teng tomonli uchburchaklar o'xshashligi
AAA triangle similarity	teng burchakli uchburchaklar o'xshashligi
AAS triangle congruence	uchburchaklarning ikki tomon va teskari tomon bilan o'xshashligi
ASA triangle congruence	uchburchaklarning ikki burchak va bir tomon bilan o'xshashligi
angle addition postulate	burchaklarni qo'shish aksiomasi
axiom	aksioma
bi-conditional	ekvivalentli
conclusion	xulosa
conditional statement	shartli fikr
conjecture	Taxmin, gipoteza

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
conjunction	konyunksiya
contradiction	ziddiyat
contrapositive of a statement	qarama-qarshi qo'yish orqali fikrlash
converse of a statement	teskari fikr
counterexample	teskari misol
deductive reasoning	deduktiv xulosa
definition	ta'rif
disjunction	disyunksiya, bo'lish, parchalash
dynamic geometry software	dinamik geometriya ta'minot dasturi
equivalence relation	ekvivalentlik nisbati
Euclidean Parallel Postulate	Evklidning parallellik aksiomasi
hypotenuse and leg triangle congruence	uchburchaklarning gipotenuza va katet bo'yicha o'xshashligi
indirect proof	bilvosita isbot
inductive reasoning	induktiv xulosa
inverse of a statement	teskari fikr
justify	asoslamoq
logical equivalent	mantiqiy ekvivalentlik
negation	inkor qilish
parallel postulate (s)	parallel to'g'ri chiziqlar to'g'risidagi aksioma
postulate	aksioma
proof	isboth
proof by contradiction	ziddiyatdan kelib chiqilgan isbot
Pythagorean Theorem	Pifagor teoremasi
reason	Sabab
reflexive property of equality	tenglikning refleksiv xossasi
SAS triangle congruence	uchburchaklarning ikki tomon va ular orasidagi burchak bo'yicha o'xshashligi
SAS similarity Theorem	uchburchaklarning ikki tomon va ular orasidagi burchak bo'yicha o'xshashligi teoremasi
SSS triangle congruence	uchburchaklarning uchta tomon bo'yicha o'xshashligi
substitution property	almashtirish xususiyati
subtraction property of equality	tenglikning ayirish xususiyati
symmetric property of equality	tenglik simmetriyasi
theorem	Teorema
transitive property of equality	tenglikning tranzitiv xususiyati
transformational proof	o'zgartirishni isbot
truth value	haqiqiy qiymat
two-column proof	ikki ustun ko'rinishida isbotlash
undefined terms	noaniq atamalar, noaniq elementlar
union of sets	to'plamlaning birlashuvi
valid argument	haqiqiy isbotlash
<b>Transformational Geometry</b>	<b>O'zgartirish geometriyasi</b>
axis of symmetry	simmetriya o'qi
center of a dilation	o'xshash o'zgartirish markazi
center of a rotation	aylanish (burilish) markazi

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
clockwise (orientation)	soat mili bo'ylab (yo'nalish)
composition	birikma, kompozitsiya
constant of proportionality	proporsionallik koeffitsiyenti
contraction	qisqartirish
counterclockwise (orientation)	soat miligi teskari (yo'nalish)
dilation	o'xshash o'zgartirish
direct transformation	bevosita o'zgartirish
domain	aniqlash sohasi
dynamic geometry software	dinamik geometriya tam'minot dasturi
fixed point	harakatsiz nuqta
function	funksiya
function notation for transformations	o'zgartirishlarning funksional yozuvi
glide reflection	sirpanuvchan aks
group	guruh
half-turn	yarim aylan(tir)ish
identity	ayniyat
image	tasvir
inverse of a transformation	qayta o'zgartirish
isometric	izometriyaga oid
mapping (function)	aks ettirish (funksiya)
opposite transformation	aks o'zgartirish
orientation	yo'nalish
pre-image	timsol
reflection	aks et(tir)ish
rotation	burish
rotational symmetry	o'q simmetriyasi
symmetry	simmetriya
tessellation	mozaika
transformation	o'zgartirish
transformational geometry	qayta o'zgartirish geometriyasi
translation	ko'chirish
transformational geometry	qayta o'zgartirish geometriyasi
translation	ko'chirish
<b>Coordinate Geometry</b>	<b>koordinatalar geometriyasi</b>
abscissa	asbsissa
analytical geometry	analitik geometriya
analytical proof	tahliliy isbot
Cartesian coordinates	dekart koordinatalari
Cartesian plane	dekart tekisligi
center-radius equation of circle	markaz koordinatalari va radius orqali ifodalangan shakl (aylana tenglamasininki)
coordinate	koordinata
coordinate geometry	koordinatalar geometriyasi
coordinate plane	koordinata tekisligi
distance between two points	ikk nuqta orasidagi masofa
origin	koordinatalar boshlanishi

**GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL**

<b>ENGLISH</b>	<b>UZBEK</b>
point slope equation of a line	to'g'ri chiziqlar bog'lami tenglamasi
rectangular coordinates	Dekartning (to'g'ri burchakli) koordinatalari
slope - intercept equation of a line	qiyalik burchagi bo'yicha to'g'ri chiziq tenglamasi
three-dimensional space	uch o'lchamli fazo
two-dimensional space	ikki o'lchamli fazo
vector	vektor
x-axis	x-o'q
x-intercept	koordinatalar boshidagi x o'q bilan kesiluvchi bo'lak
y-axis	y-o'q
y-intercept	koordinatalar boshidagi y o'q bilan kesiluvchi bo'lak
z-axis	z-o'q