

# Glossary

High School Level

## Algebra **2** & Trigonometry Glossary

English / Uzbek



Translation of Algebra & Trigonometry terms based on the Coursework for Algebra & Trigonometry Grades 9 to 12.

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





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**ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL**

<b>ENGLISH</b>	<b>UZBEK</b>
<b>Problem Solving</b>	<b>Masalalar yechish</b>
algebraically	algebra usulida
alternate approach	o'zgacha yondashuv
collaborate	hamkorlik qilmoq
conjecture	taxmin, gipoteza
constraint	cheklovchi shart
critique	tanqid
equivalent	ekvivalent, teng qiymatli
evaluate	hisoblab chiqmoq, qiymatni topmoq
explain	tushuntirmoq
formulate	formula shaklida ifoda qilmoq
generalization	umumlashtirish
graphically	grafik ko'rinishida, ko'rgazmali
interpret	talqin qilmoq, tushuntirmoq
multiple representations	ko'plab taqdimotlar
numerically	raqamlar shaklida
observe	kuzatmoq
parameter	parametr
strategy	strategiya
verbally	og'zaki
<b>Reasoning and Proof</b>	<b>Asoslash va isbotlash</b>
argument	dalil
axiom	aksioma
conclusion	xulosa
conjecture	taxmin, gipoteza
counterexample	aks misol
discover	izlab topmoq
exact answer	aniq javob
explain	tushuntirmoq
explore	tadqiq qilmoq
general case	umumiy holat
inductive reasoning	induktiv xulosa
Informal indirect proof	norasmiy va bilvosita isbot
investigate	surishtirmoq
justify	asoslab bermoq
refute	rad etmoq
specific result	aniq natija
theorem	teorema
<b>Communication</b>	<b>Kommunikatsiya</b>
accuracy	aniqlik
appropriate	tegishli
challenge	murakkab vazifa, muammo
chart	karta, sxema, jadval, diagramma

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
coherent	bog'liq
comprehension	tushunish
conjecture	taxmin, gipoteza
decoding	koddan chiqarish
diagram	grafik, diagramma
equation	tenglama
formula	formula
function	funksiya
graph	diagramma, grafika
interpretation	talqin
logical argument	mantiqiy dalil
mathematical representation	matematik taqdimot
numerical tables	sonlar jadvali
organize	tashkil qilmoq, tartibga solmoq
outline	kontur
rationale	asoslash
reflect	aks ettrimoq
standard notation	sonni yozishning standart shakli (darajalarni ko'rsatmasdan)
strategy	strategiya
symbol	ramz
technical writing	texnik hujjatlarni tuzish
terminology	terminologiya, atamashunoslik
validity	umumiy ma'noga egalik
verbal explanation	og'zaki tushuntirish
written explanation	yozma tushuntirish
<b>Connections</b>	<b>Bog'lanishlar</b>
concept	tushuncha
conclusion	xulosa
formulate	formula shaklida ifoda qilmoq
multiple representation	ko'plab taqdimot
physical model	fizik model
procedure	tartib; muolaja
quantitative model	miqdor modeli
representation	taqdimot
<b>Representation</b>	
algebraic representation	algebraik taqdimot
apply	qo'llamioq, ilova qilmoq
chart	karta, sxema, jadval, diagramma
communicate	aloqa o'rnatmoq, o'zaro harakat qilmoq
compare	taqqoslamog
concept	tushuncha
diagram	grafik, diagramma
equation	tenglama

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
explore	tadqiq qilmoq
graph	diagramma, grafika
graphical representation	grafikali taqdimot
investigate	aniqlamoq
mathematical phenomena	matematik hodisalar
multiple representations	ko'plab taqdimotlar
organize	tashkil qilmoq, tartibga solmoq
physical object	fizik obyekt
physical phenomena	fizik hodisalar
recognize	tanimoq, aniqlamoq
record	yozuv
social phenomena	ijtimoiy hodisalar
symbol	ramz
table	jadval
technology	texnologiya
translate	ko'chirmoq, tarjima qilmoq
<b>Number Sense and Operations</b>	<b>Sonlarni tushunish va amallar</b>
a+bi form	a+bi shakli
absolute value	mutlaq qiymat
complex fraction	murakkab kasr
complex number	murakkab son
conjugate	bog'langan
direct variation	to'g'ri proporsional o'zgarish
<i>e</i>	<i>e (xato)</i>
fractional exponent	kasr ko'rsatkichi
<i>i</i>	<i>i (ichki, mavhum)</i>
imaginary number	xayoliy son
index of a radical	ildiz ko'rsatkichi
inverse variation	teskari proporsionallik qonuni bo'yicha o'zgarish
irrational number	irratsional son
negative exponent	manfiy daraja
nth root	n-darajali ildiz
operation	amal
pi	pi soni
powers of <i>i</i>	<i>i</i> ning darajalari
principal square root	kvadrat ildizning asosiy qiymati
procedure	tartib; muolaja
radical	radikal, ildiz
radical form	ildiz shakli
radicand	ildizosti soni
rational number	ratsional son
rationalize a denominator	maxrajdagi irratsionallikdan qutulish
real number	haqiqiy son
scientific notation	eksponensial format
sigma	sigma
sigma notation	yig'indining belgi bilan ifodalanishi

**ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL**

<b>ENGLISH</b>	<b>UZBEK</b>
<b>Algebra</b>	
abscissa	absissa
absolute value	mutlaq qiymat
absolute value equation	mutlaq qiymat tenglamasi
absolute value function	mutlaq qiymat funksiyasi
absolute value inequality	mutlaq qiymat tengsizligi
adjacent angles	yondosh burchaklar
adjacent sides	yondosh tomonlar
algebraic expression	algebraik ifoda
algebraic representation	algebraik taqdimot
ambiguous case	Birdan ortiq bo'lgan echimga ega bo'lgan masala
amplitude	amplituda
analyze	tahlil qilmoq
angle	burchak
angle in standard position	standart holatdagi burchak
angle of depression	pasayish burchagi
angle of elevation	yuqorilash burchagi
antilogarithm	antilogarifm
approximate value	taxminiy qiymat
arc length	yoy uzunligi
arc cosine	arkkosinus
arc sine	arksinus
arc tangent	arktangens
area of a parallelogram using SAS	statistik tahlil tizimi qo'llanuvchi parallelogramm maydoni
area of a triangle using SAS	statistik tahlil tizimi qo'llanuvchi uchburchak
arithmetic sequence	arifmetik progressiya
arithmetic series	arifmetik qator
asymptote	asimptota
base	asos
base of a logarithmic function	logarifm funksiyasi asosi
base of an exponential function	eksponensial funksiya asosi
binomial expansion	Ikki hadli ajralish
binomial theorem	Ikki hadli teorema
center-radius equation of a circle	aylananing markaz koordinatasi va radiusi tenglamasi
central angle	markaziy burchak
circle	aylana (doira)
circular functions	aylana funksiyasi
coefficient	koeffitsiyent
cofunctions	hamfunksiyalar
common base (s)	umumiy asos(lar)
common difference	umumiy tafovut
common factor	umumiy omil
common logarithm	umumiy logarifm
common ratio	umumiy maxraj

## ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
completing the square	to'liq kvadratgacha to'ldirish
complex fractional expressions	murakkab kasr ifodalari
compositions of functions	Funksiyalar kompozitsiyalari
compound interest	murakkab foiz
constant function	doimiy funksiya
cosecant	kosekans
cosine	kosinus
cotangent	kotangens
degree of a polynomial	ko'phad darajasi
difference of two perfect squares	ikkita oddiy sonlar kvadratinig ayirmasi
direct variation	to'g'ri proporsional o'zgarish
discriminant	diskriminant
domain	soha
double and half angle formulas for trigonometric function	trigonometrik funksiya uchun ikki va yarim buchak formulalari
double root	Ikkilangan ildiz
$e$	$e$ ( <i>xato</i> )
equation	tenglama
equivalent forms	ekvivalent shakllar
exact value	aniq qiymat
expand a binomial	ikki had formulasi bo'yicha ajratmoq
explicit definition	aniq ta'rif
exponential form	eksponensial shakl
exponential function	eksponensial funksiya
extraneous root	chet ildiz
factor	omil
fractional exponent	kasr ko'rsatkichi
frequency (of a periodic function)	chastota (davriy funksiyaniki)
function	funksiya
function notation	sonlarni taqdim etish funksiyasi
geometric sequence	geometrik progressiya
geometric series	geometrik qator
graphical solution of equations	tenglamalarning grafik yechimi
greatest common factor (GCF)	eng katta umumiy bo'luvchi (GCF)
growth factor	o'shish omili
half-life	yarim davr
$i$	$i$ ( <i>ichki, mavhum</i> )
identities	birliklar
initial side of an angle	burchakning boshlang'ich tarafi
inverse function	teskari funksiya
inverse trigonometric functions	teskari trigonometrik funksiyalar
inverse variation	teskari proporsionallik qonuni bo'yicha o'zgarish
law of Cosines	Kosinuslar teoremasi
laws of Sines	Sinuslar teoremasi
laws of exponents	darajalar ko'rsatkichlari bilan amallar bajarish qoidalari
laws of logarithms	logarifm qoidalari

## ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
linear equation	birinchi darajali tenglama
linear expression	chiziqli ifoda
linear systems	chiziqli tizimlar
logarithm	logarifm
logarithmic form	logarifm shakli
lowest terms	kichik hadlar
nature of the roots	ildizlarning mohiyati
negative exponent	manfiy daraja
$n$ th root	$n$ -darajali ildiz
$n$ th term	$n$ -darajali had
one cycle of a trigonometric function	trigonometrik finksiyaning bir sikli
one-to-one function	o'zaro bir qiymatli funksiya
onto	ustiga/ustida
opposite side in a right triangle	to'g'ri uchburchakning teskari tarafi
ordinate	ordinata
parabola	parabola
parameter	parametr
period (of a function)	davr (funksiyaniki)
periodic function	davriy funksiya
phase shift	fazani o'zgartirish
polynomial expression	ko'phadli ifoda
polynomial function	ko'phadli funksiya
Powers of $i$	$i$ ning darajalari
Pythagorean identities	Pifagor formulalari
quadrant angle	ko'tarilish burchagi
quadratic equation	kvadrat tenglama
quadratic formula	kvadrat tenglama ildizlari formulasi
quadratic inequality	kvadrat tengsizlik
quadratic trinomial	kvadrat uchhadi
radius	radius
range (of a function)	diapazon (funksiyaniki)
rational coefficient	ratsional koeffitsiyent
rational equation	ratsional tenglama
rational expression	ratsional ifoda
rational inequality	ratsional tengsizlik
rationalize denominators	maxrajlardagi irratsionallikdan qutulish
reciprocal trigonometric functions	teskari trigonometrik finksiyalar
recursive definition	rekursiv ta'rif
reference angle	nisbiy burchak
relation	nisbat
replacement	almashtirish
represent	taqdim etmoq, aks ettirmoq
restricted domain	cheklangan soha
resultant	rezultant
right triangle trigonometry	to'g'ri burchakli uchburchak trigonometriyasi
root of an equation	tenglama ildizi



## ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
secant (of an angle)	sekans (burchakniki)
sigma notation	yig'indining belgi bilan ifodalanishi
sine	sinus
solution set	yechimlar turkumi
standard position (of an angle)	standart holat (burchakniki)
subset	turkum narsalarning bir bo 'lagi
sum and product or roots of a quadratic equation	kvadrat tenglamaning yog'indisi, ko'paytmasi yoki ildizlari
sum of an arithmetic series	arifmetik qator yig'indisi
sum of a geometric series	geometrik qator yig'indisi
systems of equations/inequalities	tenglamalar/tengsizliklar tizimlari
tangent (of an angle)	tangens (burchakniki)
technology	texnologiya
terminal side of an angle	burchakning tugash tarafi
transformation	o'zgarish
transformations of functions and relations	funksiyalar va nisbatlarning o'zgarishlari
trigonometric equation	trigonometrik tenglama
trigonometric functions	trigonometrik funksiyalar
unit circle	bir radiusli aylana (doira)
variable	o'zgaruvchan qiymat
vector	vektor
vertical line test	vertikal chiziq mezoni
zero of a function	funksiyaning noli
zero product property	nol hosila xususiyati
Geometry	Geometriya
absolute value	mutlaq qiymat
absolute value equation	mutlaq qiymat tenglamasi
absolute value inequality	mutlaq qiymat tengsizligi
angle in standard position	standart holatdagi burchak
angle of depression	pasayish burchagi
angle of elevation	yuqorilash burchagi
area of a parallelogram using SAS	statistik tahlil tizimi qo'llanuvchi parallelogramm maydoni
area of a triangle using SAS	statistik tahlil tizimi qo'llanuvchi uchburchak
circle	aylana (doira)
coefficient	koeffitsiyent
function	funksiya
generalize	umumlashtirmoq
geometric representation of a circular function	trigonometrik funksiyaning geometrik taqdimoti
graph of a relation	nisbat grafigi
graphical representation	grafikali taqdimot
graphical solution of equations	tenglamalarning grafik yechimi
investigate	aniqlamoq
ordered pair	tartibga solingan juftlik
parabola	parabola

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
rational coefficient	ratsional koeffitsiyent
rectangular coordinates	to'g'ri burchakli koordinatalar
relation	nisbat
root of an equation	tenglama ildizi
sector of a circle	aylana sektori
slope	qiyalik
triangle	uchburchak
vertex	balandlik
visualization	vizuallashtirish, ko'rgazmali qurollar ishlatish
<b>Measurement</b>	<b>O'lchash</b>
arc length	yoy uzunligi
degree measure	gradus o'lchovi
measure of central angle	markaziy burchak o'lchami
minute	daqiqqa
radian measure	radian o'lchami
<b>Statistics and Probability</b>	<b>Statistika va ehtimollik</b>
at least	eng kamida
at most	ko'pi bilan
Bernoulli experiments	Bernoulli tajribalari
biased sample	noto'g'ri namuna
bimodal	bimodal
binomial probability formula	binomial taqsimot ehtimoli formulasi
bivariate data	Ikki o'lchamli ma'lumotlar
central tendency	o'rta qiymat
combination	kombinatsiya
compound event	murakkab voqea
conjecture	taxmin, gipoteza
controlled experiment	boshqariluvchi tajriba
correlation coefficient	o'zaro bog'liqlik koeffitsiyenti
counting principle	hisoblash prinsipi
exactly	aniq
experimental probability	tajriba ehtimoli
extrapolate	ekstrapolyatsiya qilmoq
frequency (of a data set)	chastota (malumotlar turkumini)
frequency distribution	chastotalarni taqsimlash
grouped frequency distribution	guruhlangan chastotalarni taqsimlash
index in statistics	statistikada indeks
interpolate	interpolyatsiya qilmoq
interquartile range	interkvartil diapazon
least squares regression line	eng kam kvadrat regressiyasi chizig'i
line of best fit	eng mos chiziq
linear regression	chiziqli regressiya
mean	o'rta qiymat
measure of central tendency	o'rta qiymat o'lchovi

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	UZBEK
measure of dispersion	tarqalish ko'rsatkichi
median	mediana, o'rta chiziq
mode	usul
normal curve	normal taqsimlash egri chizig'i
normal distribution	normal umumlashtirilgan funksiya
observation	kuzatuv
outlier	keskin ajraluvchi qiymat
Pascal's triangle	Paskal uchburchagi
percentile	prosentil
permutation	joyini almashtirish
probability	ehtimollik
quartiles	kvartillar
random sample	tasodifiy misol
range (of a data set)	diapazon (ma'lumotlar to'plamini)
regression equation	regressiya tanglamasi
regression model	regressiya modeli
sample space	tanlash makoni
scatter plot	tarqalish diagrammasi
standard deviation (population)	standart og'ish (aholi)
standard deviation (sample)	standart og'ish (tanlash)
statistics	statistika
survey	ko'zdan kechirish ; Ko'zdan kechirmoq, tekshirmoq
technology	texnologiya
theoretical probability	nazariy ehtimollik
univariate data	bir o'lchamli ma'lumotlar
variance (population)	dispersiya (aholi)
variance (sample)	dispersiya (tanlash)