

Glossary

High School Level Algebra **2** Glossary

English | Twi

Translation of Algebra 2 and Trigonometry terms based on the Coursework for Algebra 2 and Trigonometry 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.

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ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
Problem Solving	Ɔhaw a wodi ho Dwuma
algebraically	wɔ kwan a wɔmmfa nɔma nni dwuma so
alternate approach	kwan foforo
collaborate	nkitahodi
conjecture	tirimɔ
constraint	anohyeto
critique	kasatia
equivalent	ne no yɛ pɛ
evaluate	kari
explain	kyerɛkyerɛmu
formulate	nwen biribi/nsusuwii
generalization	de fa nneɛma afoforo ho
graphically	mfonin kwan so
interpret	kyerɛ ase
multiple representations	asiananmu ahorow
numerically	wɔ nɔma kwan so
observe	hwehwe hu
parameter	akontaabu mu susude
strategy	ɔkwan a wɔde beye biribi
verbally	ano a wɔde ka
Reasoning and Proof	Adesusuw ne Adanse
argument	asɛm
axiom	kasabebuo
conclusion	awiei asɛm
conjecture	tirimɔ
counterexample	nhwɛso a ɛbɔ gu
discover	hu biribi foforo
exact answer	mmuae pɔtee
explain	kyerɛkyerɛmu
explore	ade foforo mu hwehwe
general case	asɛm biara keke
inductive reasoning	nsusuwii a egyina adansesɛm so
Informal indirect proof	adanse a ɛmfa ho tee
investigate	hwehwe mu
justify	kyerɛkyerɛ nea enti
refute	bɔ gu
specific result	nea efi mu ba pɔtee
theorem	adesua mu nsusuwii a wɔagye atom
Communication	Nkitahodi
accuracy	mudi
appropriate	ɛfata
challenge	asennenen
chart	nhyehyɛe pon

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
coherent	toatoam
comprehension	ntease
conjecture	tirimbo
decoding	nkyerεaseye
diagram	mfonin
equation	afa abien akontaabu nsem a εye pe
formula	akontaabu kwan
function	akontaabu asem a nea εwom wɔ nkitahodi
graph	mfonin
interpretation	nkyerεase
logical argument	asem a nyansa wom
mathematical representation	akontaabu mu nsenkyerenne
numerical tables	nɔma pon ahorow
organize	hyehye
outline	asem muabo
rationale	adwene a εta akyi
reflect	twa mfonin
standard notation	agyiraehyede a wɔagyε atom
strategy	ɔkwan a wɔde beyε biribi
symbol	ahyensodeε
technical writing	akyerεw a εfa adwuma bi ho
terminology	nsemfua ahorow
validity	biribi mudi
verbal explanation	nkyerεkyerεmu a wɔde ano ma
written explanation	nkyerεkyerεmu a wɔakyerεw
Connections	Nkitahodi Ahorow
concept	nsusuwii
conclusion	awiei asem
formulate	nwen biribi/nsusuwii
multiple representation	nsenkyerenne ahorow
physical model	nhwεsode a wohu
procedure	kwan a wɔde ye biribi
quantitative model	nhwεsode a wotumi kan
representation	senkyerenne
Representation	Nsiananmu/Senkyerenne
algebraic representation	senkyerenne a wɔmmfa nɔma nni dwuma
apply	fa di dwuma
chart	nhyehyεe pon
communicate	ka ho asem kyere
compare	fa toto
concept	nsusuwii
diagram	mfonin
equation	afa abien akontaabu nsem a εye pe
explore	ade foforo mu hwehwe

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
graph	mfonin
graphical representation	sɛnkyerɛnne a wɔɔyɛ no mfonin
investigate	hwehwɛ mu
mathematical phenomena	akontaabu mu ade a asi
multiple representations	nsɛnkyerɛnne ahorow
organize	hyehyɛ
physical object	ade a wohu
physical phenomena	ade a asi a wohu
recognize	hyɛ nsow
record	kyerɛwtoɔ
social phenomena	ade a asi a ɛfa nnipa ho
symbol	sɛnkyerɛnne
table	pon
technology	adɛɛfo mfidwuma
translate	kyerɛ ase kɔ kasa foforo mu
Number Sense and Operations	Nɔma Ntease ne Nnwuma
a+bi form	a+bi sɛso
absolute value	nɔma pɔtee
complex fraction	nɔma a atifi anaa ase kura asin
complex number	nɔma a ɛte sɛ a+bi
conjugate	ade nketewa nkabom
direct variation	nsakrae tee
<i>e</i>	<i>e</i>
fractional exponent	asin a nɔma bi de bɔ ho
<i>i</i>	<i>i</i>
imaginary number	nsusuwii mu nɔma
index of a radical	nɔma ase mmɔho ahyɛnsode
inverse variation	nsakrae mu birabɔ
irrational number	nɔma a ntease nnim
negative exponent	mmɔho ahyɛnsode nɔma negatif
nth root	ase a ɛto so n
operation	dwumadi
pi	pai
powers of <i>i</i>	<i>i</i> mmɔho ahorow
principal square root	nɔma ase titiriw
procedure	kwan a wɔde yɛ biribi
radical	ase mmɔho
radical form	ase mmɔho sɛso
radicand	radikande
rational number	nɔma a ntease wom
rationalize a denominator	ase nɔma a wɔma ntease bam
real number	nɔma ankasa
scientific notation	agyiraehyɛde a nyansapefo agye atom
sigma	nkabom
sigma notation	nkabom agyiraehyɛde

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
Algebra	Algebra
abscissa	mfonin hama a ϵ da ho noma
absolute value	noma patee
absolute value equation	peye asem a noma patee wom
absolute value function	asem a noma patee wom
absolute value inequality	nea enye pe asem a noma patee wom
adjacent angles	angil a edi nhweanim
adjacent sides	afa a edi nhweanim
algebraic expression	akontaabu asem a wommfa noma nni dwuma
algebraic representation	senkyerenne a wommfa noma nni dwuma
ambiguous case	asem a emu nna ho
amplitude	keseye
analyze	susuwho
angle	angil
angle in standard position	angil a ewo gynabea bi
angle of depression	fam angil
angle of elevation	soro angil
antilogarithm	antilogaridm
approximate value	noma a ebeye se
arc length	kontankron fa tenten
arccosine	kontankron fa kosain
arc sine	kontankron fa sain
arc tangent	kontankron fa tangent
area of a parallelogram using SAS	kwan a ϵ da paralelogram mu a wode SAS di dwuma
area of a triangle using SAS	kwan a ϵ da traiangil mu a wode SAS di dwuma
arithmetic sequence	noma nnidisonnidiso
arithmetic series	noma nhyehyee patee bi
asymptote	asimtote
base	ase
base of a logarithmic function	logaridim asem bi ase
base of an exponential function	mmcho asem bi ase
binomial expansion	bainomial ntrewmu
binomial theorem	bainomial adesua mu nsusuwii a wogye atom
center-radius equation of a circle	kontankron mu fa tenten asem
central angle	mfinimfini angil
circle	kontankron
circular functions	nsem a ne yebea ye kontankron
coefficient	koefihyienti
cofunctions	nsem ahorow a eko bom
common base (s)	ase biako
common difference	nsonsonoe biako
common factor	noma biako a eko ebiara mu
common logarithm	logaridim biako
common ratio	rehyio a ewo ebiara mu
completing the square	mmcho abien akontaabu

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
complex fractional expressions	asem a noma a atifi anaa ase kura asin wom
compositions of functions	nsem mmoaboano
compound interest	mfentom wɔ sika a aboa ano ho
constant function	akontaabu asem a nea ewom wɔ nkitahodi a ensakra
cosecant	kosekant
cosine	kosain
cotangent	kotangenti
degree of a polynomial	asem mmɔho penpenso
difference of two perfect squares	nea eda mmɔho abien nsem ntam
direct variation	nsakrae tee
discriminant	nea ema nsonsonoe ba
domain	nea ewɔ asem mu
double and half angle formulas for trigonometric function	nea wɔde hu trigonometri asem mu angil mmɔho abien ne fa
double root	ase mmɔho abien
e	e
equation	afa abien akontaabu nsem a eye pe
equivalent forms	nseso a eye pe
exact value	noma pɔtee
expand a binomial	trɛw bainomial mu
explicit definition	nkyerɛkyeremu a emu da hɔ
exponential form	mmɔho seɔ
exponential function	mmɔho akontaabu asem a nea ewom wɔ nkitahodi
extraneous root	ase a emfi mu
factor	noma a ekɔ mu
fractional exponent	asin a noma bi de bɔ ho
frequency (of a periodic function)	senea asem bi ti ne ho mu
function	akontaabu asem a nea ewom wɔ nkitahodi
function notation	akontaabu agyiraehyede a wɔagye atom
geometric sequence	senea mfonin didi so
geometric series	mfonin nhyehyee pɔtee bi
graphical solution of equations	nsem mmuae ho mfonin
greatest common factor (GCF)	noma biako a ekɔ ebiara mu nea eso sen biara (GCF)
growth factor	noma a ekɔ mu ma no ye kese
half-life	bere a edi ma ade so tew ka fa
i	i
identities	nea edi nse
initial side of an angle	angil fa a edi kan
inverse function	abirabɔ akontaabu asem a nea ewom wɔ nkitahodi
inverse trigonometric functions	trigonometri birabɔ nsem
inverse variation	nsakrae mu birabɔ
law of Cosines	Kosain mmara
laws of Sines	Sain mmara
laws of exponents	mmɔho mmara
laws of logarithms	logaridim mmara
linear equation	peye asem a ne mfonin ye hama a etee

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
linear expression	peye asem a etee
linear systems	peye nsem a ne mfonin ye hama a etee
logarithm	logaridim
logarithmic form	logaridim seso
lowest terms	nseso a eba fam so
nature of the roots	ase ahorow no yebea
negative exponent	mmcho ahyensode noma negatif
nth root	ase a eto so n
nth term	nea eto so n
one cycle of a trigonometric function	trigonometri asem ntwa ho biako
one-to-one function	asem a eye biako wo ha wo ha
onto	wo so
opposite side in a right triangle	traiangil a anim hwe faako akyi
ordinate	noma a ewo y so wo mfonin mu
parabola	parabola
parameter	akontaabu mu susude
period (of a function)	asem bi mu bere
periodic function	bere a ewo akontaabu asem a nea ewom wo nkitahodi mu
phase shift	ofa nsakrae
polynomial expression	polynomial asem
polynomial function	polynomial akontaabu asem a nea ewom wo nkitahodi
Powers of i	i mmcho ahorow
Pythagorean identities	Pythagoras nsem a edi nse
quadrant angle	nkyekyem anan angil
quadratic equation	kwadratik afa abien akontaabu asem a eye pe
quadratic formula	kwadratik seso
quadratic inequality	nea enye pe wo kwadratik seso
quadratic trinomial	kwadratik seso a emu nsem ye abiesa
radius	kontonkon mu tenten fa
range (of a function)	asem bi mu tenten
rational coefficient	koefihyienti a ntease wom
rational equation	afa abien akontaabu nsem a eye pe na ntease wom
rational expression	asem a ntease wom
rational inequality	afa abien akontaabu nsem a enye pe na ntease wom
rationalize denominators	ase noma ahorow a woma ntease bam
reciprocal trigonometric functions	trigonometri nsem a esi ti ase
recursive definition	ntoatoaso kwan
reference angle	angil a watwe adwene asi
relation	abusuabo
replacement	nsiananmu
represent	gyina ho ma
restricted domain	nea ewo asem mu a ewo anohyeto
resultant	mmuae
right triangle trigonometry	traiangil a anim kyere faako trigonometri
root of an equation	asem bi ase
secant (of an angle)	sekant (angil de)

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
sigma notation	nkabom agyiraehyede
sine	sain
solution set	mmuae ahorow
standard position (of an angle)	gyinabea pɔtee (angil de)
subset	emu ade
sum and product or roots of a quadratic equation	kwadratik pɛyɛ asem mu nkabom ne mmɔho anaa ase
sum of an arithmetic series	nɔma nhyehyɛe pɔtee bi nkabom
sum of a geometric series	mfonin nhyehyɛe pɔtee bi nkabom
systems of equations/inequalities	nsem ahorow a eyɛ pɛ ne nea enyɛ pɛ
tangent (of an angle)	angil bi tangent
technology	adɛɛfo mfridwuma
terminal side of an angle	angil bi fa biako
transformation	nsakraeyɛ
transformations of functions and relations	nsakrae wɔ nsem ne nea ɛbɔ mmusua mu
trigonometric equation	trigonometri afa abien akontaabu asem a eyɛ pɛ
trigonometric functions	trigonometri nsem
unit circle	kɔntɔnkɔn biako
variable	nea ɛsakra
vector	kɛseyɛ ne kwankyerɛ nɔma
vertical line test	hama a egyina hɔ sɔhwe
zero of a function	asem bi mu hwee
zero product property	hwee mmɔho mmara
Geometry	Akontaabu mu mfonin adesua
absolute value	nɔma pɔtee
absolute value equation	pɛyɛ asem a nɔma pɔtee wom
absolute value inequality	nea enyɛ pɛ asem a nɔma pɔtee wom
angle in standard position	angil a ɛwɔ gyinabea bi
angle of depression	fam angil
angle of elevation	soro angil
area of a parallelogram using SAS	kwan a ɛda paralelogram mu a wɔde SAS di dwuma
area of a triangle using SAS	kwan a ɛda traiangil mu a wɔde SAS di dwuma
circle	kɔntɔnkɔn
coefficient	koɛfihyienti
function	akontaabu asem a nea ɛwom wɔ nkitahodi
generalize	ma ɛmfa biribiara ho
geometric representation of a circular function	kɔntɔnkɔn asem a wɔatwa no mfonin
graph of a relation	abusuabɔ asem bi mfonin
graphical representation	sɛnkyeranne a wɔayɛ no mfonin
graphical solution of equations	nsem mmuae ho mfonin
investigate	hwehwe mu
ordered pair	abien abien a wɔahyehyɛ
parabola	parabola
rational coefficient	koɛfihyienti a ntease wom
rectangular coordinates	mfonin so nɔma ahorow anan

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
relation	abusuabɔ
root of an equation	asɛm bi ase
sector of a circle	kɔntɔnkɔrɔn fa bi a wɔatwa
slope	nea esian
triangle	traiangil
vertex	atifi
visualization	adwene mu mfonintwa
Measurement	Adesusuw
arc length	kɔntɔnkɔrɔn fa tenten
degree measure	mɔpɛnɛnso susuw
measure of central angle	mfinimfini angil susuw
minute	simma
radian measure	redian susuw
Statistics and Probability	Akontaabu ho amaneeɔ ne Asem si a ebetumi asi
at least	anyɛ yie koraa no
at most	aboro so koraa no
Bernoulli experiments	Bernoulli nhwehwɛmu ahorow
biased sample	nsem a wɔde beye nhwehwɛmu a enni mu
bimodal	akontaabu nsem a nea ɛdɔɔso wom ye abien
binomial probability formula	kwan a wɔde nya bainomial si a asem betumi asi
bivariate data	nea ɛwɔ nsakraede abien
central tendency	akontaabu amaneeɔ mu nsusude
combination	ahorow nkabom
compound event	asem a asi na n'afa boro biako
conjecture	tirimɔ
controlled experiment	nhwehwɛmu a wɔato ano hye
correlation coefficient	abusuabɔ koefihyienti
counting principle	akenkan gyinapɛn
exactly	pɛpɛɛpɛ
experimental probability	si a asem betumi asi a wɔde ye nhwehwɛmu
extrapolate	bo a ade som tirimɔ
frequency (of a data set)	sɛnea amaneeɔ asem bi ti ne ho mu
frequency distribution	dodow ahorow hyehyepon
grouped frequency distribution	dodow ahorow hyehyepon akuwakuw
index in statistics	amaneeɔ akontaabu nhwesode nɔma
interpolate	bo a ade som tirimɔ
interquartile range	nea ɛda nkyekyem anan anan mu
least squares regression line	amaneeɔ hama a ɛreyɛ ayɛ sɛ amaneeɔ no
line of best fit	hama a ɛfata amaneeɔ
linear regression	asem a ɛkyere abusuabɔ a ɛda nneema abien ntam a ɛtee
mean	nea wonya bere a wɔakyekyem pɛpɛɛpɛ
measure of central tendency	akontaabu amaneeɔ mu susude
measure of dispersion	nea ɛmfa kwan mu susude
median	nea ɛda mfinimfini

ALGEBRA 2 & TRIGONOMETRY - HIGH SCHOOL LEVEL

ENGLISH	TWI
mode	nea ne dodow dɔɔso
normal curve	mfonin hama a ekɔ soro ba fam
normal distribution	amaneɛbɔ asem a akyekyem pɛ
observation	nea wohu
outlier	nsusude a wɔnhwɛ kwan
Pascal's triangle	Pascal traiangil
percentile	ɔha mu nkyekyem
permutation	nsakrae a wɔyeyɛ de nya biribi
probability	si a asem betumi asi
quartiles	anan mu nkyekyem
random sample	nsɛm a wɔde bɛyɛ nhwehwɛmu a wɔapaw keke
range (of a data set)	amaneɛbɔ asem bi mu nea ɛso ne nea esua nsonsonoe
regression equation	nneɛma abien ntam abusuabɔ akontaabu asem
regression model	nneɛma abien ntam abusuabɔ nhwɛsode
sample space	nea wɔde bɛyɛ nhwehwɛmu dodow
scatter plot	amaneɛbɔ nsɛm a esisi mfonin pon so biako biako
standard deviation (population)	nea wɔnhwɛ kwan wɔ amaneɛbɔ nkontaa mu (ne nyinaa mu)
standard deviation (sample)	nea wɔnhwɛ kwan wɔ amaneɛbɔ nkontaa mu (emu bi mu)
statistics	amaneɛbɔ akontaabu
survey	nhwehwɛmu
technology	adɛɛfo mfidwuma
theoretical probability	si a asem betumi asi ho tirimbɔ
univariate data	nea ɛwɔ nsakraede biako pɛ
variance (population)	susude a ɛmfa ho (ne nyinaa mu)
variance (sample)	susude a ɛmfa ho (emu bi mu)

NYS Grades 9 – 12 Math Terms Addenda

Common Core Math Standard	ENGLISH	TWI
N-RN.B.3	non-zero rational number	nɔma a enye hwee (sɛro)
A-SSE.A.1	difference of squares, example: $(a^2 - b^2)$	nɔma bi ankasa mmɔho a woyi fi foforo a ete saa mu, sɛnhwɛso: $(a^2 - b^2)$
A-SSE.A.1	square of a difference, example: $(a - b)^2$	nɔma a woyi fi ɔfoforo mu na wobu n'ankasa mmɔho, sɛnhwɛso: $(a - b)^2$
A-SSE.B.3	equivalent monthly interest rate	bosome biara mfentom a ene no sɛ
A-CED.A.1	exponential equation	akontaabu pɛye asem a nɔma bi ankasa mmɔho hyehyem
A-CED.A.3	non-viable options (inequalities)	nea entumi nnyina (akontaabu asem a ene ɔfoforo nnye pɛ)
A-CED.A.3	viable options (inequalities)	nea etumi gyina (akontaabu asem a ene ɔfoforo nnye pɛ)
A-REI.A.1	viable argument	asɛm a etumi gyina
A-REI.D.12	half-plane	akontaabu mu mfonin a wɔatwa no fa
A-REI.D.11	logarithm function	asɛm a ɛkyerɛ nɔma bi ankasa mmɔho a wɔde nya nɔma bi
F-IF.C.8	piece-wise defined function	akontaabu mu asem a ekura afa ahorow
F-IF.C.8	step function	akontaabu mu asem a ekura afa ahorow pɔtee bi
F-IF.C.8	absolute-value function	akontaabu mu asem a wɔtwa no mfonin a ɛsɛ 'v'
F-BF.A.1	recursive process	nkyerɛwee kwan a wɔnam sankɔfa so ye
F-Bf.B.3	even function	akontaabu mu asem a sɛ wɔye ne mfonin a, 'y' pon no kyem abien pɛpɛpɛ
F-BF.B.3	odd function	akontaabu mu asem a sɛ wɔye ne mfonin a, ɛkyem abien pɛpɛpɛ wɔ 'x' ne 'y' pon nhyiam
F-LE.A.1	constant percent rate	ɔha mu nkyekyem a ɛnsakra
S-ID.B.5	categorical data	nɛm a wɔakyekyem akuw akuw
S-ID.B.5	joint frequency	dodow nyinaa mu nkyekyem a ɛwɔ afa ahorow
S-ID.B.5	marginal frequency	dodow a ɛwɔ nkabom afa
S-ID.B.5	conditional relative frequency	dodow a ɛwɔ afa ahorow
S-ID.B.6	fit of a function	akontaabu asem fata a ɛfata
S-ID.B.6	residuals	nea aka
S-ID.C.8	correlation coefficient	nɔma a ene nea etumi sakra bɔ ho wɔ asem bi mu
S-ID.C.8	linear fit	akontaabu asem a ɛfata pon a ɛkɔ tee
S-ID.C.9	correlation and causation	abusuabɔ a ɛda agyiraehyede ahorow ntam ne nsunsuanso a etumi nya wɔ afoforo so
S-ID.C8	linearity	so ɛbɛkɔ tee bere a wɔayɛ ne mfonin anaa
S-ID.C8	linear phenomenon	nea wobetumi akyerɛkyerɛ mu tee
N-Q.A.3	data point	asɛmpɔw
N.C.N.4	complex plane	akontaabu mu mfonin a ɛsɛ 'z'
N.C.N.5	conjugation of complex numbers	nɔma a ɛwɔ afa ahorow a wɔaka abom
N-V.M.6	incidence relationship (payoff)	abusuabɔ a ɛda nneɛma abien ntam wɔ mfonin mu
N-Q.A.2	descriptive modeling	asetena mu nɛm a wɔnam akontaabu so kyerɛw
S-REI.A.2	algebraic manipulation	akontaabu a wɔde agyiraehyede di dwuma wom

NYS Grades 9 – 12 Math Terms Addenda

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

KEYS

REI = Reasoning with Equations & Inequality
VM = Vectors & Matrix quantities
IF = Interpreting Functions
ID = Interpreting categorical and quantitative Data
APR = Arithmetic with Polynomials & Relational expressions