

# Glossary

## High School Level Algebra **2** Glossary

English | Malay

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 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
<b>Problem Solving</b>	<b>Penyelesaian Masalah</b>
algebraically	secara algebra
alternate approach	pendekatan alternatif
collaborate	bekerjasama
conjecture	tekaan
constraint	kekangan
critique	kritikan
equivalent	bersamaan
evaluate	menilai
explain	jelaskan
formulate	merumuskan
generalization	pengitlakan
graphically	secara grafik
interpret	menterjemahkan
multiple representations	berbilang perwakilan
numerically	secara angka
observe	perhati
parameter	parameter
strategy	strategi
verbally	secara lisan
<b>Reasoning and Proof</b>	<b>Taakulan dan Bukti</b>
argument	hujah
axiom	aksiom
conclusion	kesimpulan
conjecture	tekaan
counterexample	contoh balas
discover	temui
exact answer	jawapan yang tepat
explain	jelaskan
explore	jelajah
general case	kes umum
inductive reasoning	taakulan induktif
Informal indirect proof	Bukti tidak langsung tidak formal
investigate	menyiasat
justify	wajarkan
refute	menyangkal
specific result	keputusan khusus
theorem	teorem
<b>Communication</b>	<b>Komunikasi</b>
accuracy	ketepatan
appropriate	sesuai
challenge	cabaran
chart	carta

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
coherent	koheren
comprehension	pemahaman
conjecture	tekaan
decoding	menyahkan
diagram	rajab
equation	persamaan
formula	formula
function	fungsi
graph	graf
interpretation	tafsiran
logical argument	hujah logik
mathematical representation	pewakilan matematik
numerical tables	jadual berangka
organize	susun
outline	gariskan
rationale	rasional
reflect	fikir
standard notation	notasi standard
strategy	strategi
symbol	simbol
technical writing	penulisan teknikal
terminology	istilah
validity	tempoh sah
verbal explanation	penjelasan lisan
written explanation	penjelasan bertulis
Connections	Hubungan
concept	konsep
conclusion	kesimpulan
formulate	merumuskan
multiple representation	berbilang pewakilan
physical model	model fizikal
procedure	prosedur
quantitative model	model kuantitatif
representation	pewakilan
Representation	Pewakilan
algebraic representation	pewakilan algebra
apply	kenakan
chart	carta
communicate	berkomunikasi
compare	banding
concept	konsep
diagram	rajab
equation	persamaan
explore	jelajah

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
graph	graf
graphical representation	pewakilan grafik
investigate	menyiasat
mathematical phenomena	fenomena matematik
multiple representations	berbilang pewakilan
organize	susun
physical object	objek fizikal
physical phenomena	fenomena fizikal
recognize	kenal
record	rakam
social phenomena	fenomena sosial
symbol	simbol
table	jadual
technology	teknologi
translate	terjemah
<b>Number Sense and Operations</b>	<b>Bentuk Nombor dan Operasi</b>
a+bi form	bentuk a+bi
absolute value	nilai mutlak
complex fraction	pecahan kompleks
complex number	nombor kompleks
conjugate	konjugat
direct variation	perubahan langsung
$e$	$e$
fractional exponent	eksponen pecahan
$i$	$i$
imaginary number	nombor khayalan
index of a radical	indeks radikal
inverse variation	variasi songsang
irrational number	nombor tak nisbah
negative exponent	eksponen negatif
nth root	punca kuasa n
operation	operasi
pi	pai
powers of $i$	kuasa $i$
principal square root	punca kuasa dua utama
procedure	prosedur
radical	radikal
radical form	bentuk radikal
radicand	yang diradikal
rational number	nombor nisbah
rationalize a denominator	menjadikan pembawah terukur
real number	nombor nyata
scientific notation	notasi saintifik
sigma	sigma
sigma notation	notasi sigma

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
Algebra	Algebra
abscissa	absisa
absolute value	nilai mutlak
absolute value equation	persamaan nilai mutlak
absolute value function	fungsi nilai mutlak
absolute value inequality	ketidaksamaan nilai mutlak
adjacent angles	sudut berhampiran
adjacent sides	sisi bersebelahan
algebraic expression	ungkapan algebra
algebraic representation	pewakilan algebra
ambiguous case	kes taksa
amplitude	amplitud
analyze	analisis
angle	sudut
angle in standard position	sudut pada kedudukan standard
angle of depression	sudut tunduk
angle of elevation	sudut dongak
antilogarithm	antilogaritma
approximate value	nilai anggaran
arc length	panjang lengkok
arc cosine	lengkok kosinus
arc sine	lengkok sinus
arc tangent	lengkok tangen
area of a parallelogram using SAS	luas segiempat selari menggunakan SAS
area of a triangle using SAS	luas segitiga menggunakan SAS
arithmetic sequence	urutan aritmetik
arithmetic series	siri aritmetik
asymptote	asimptot
base	asas
base of a logarithmic function	asas fungsi logaritma
base of an exponential function	asas fungsi eksponen
binomial expansion	pengembangan binomial
binomial theorem	teorem binomial
center-radius equation of a circle	persamaan radius tengah bulatan
central angle	sudut tengah
circle	bulatan
circular functions	fungsi membulat
coefficient	pekali
cofunctions	kofungsi
common base (s)	tapak sepunya
common difference	perbezaan sepunya
common factor	faktor sepunya
common logarithm	logaritma sepunya
common ratio	nisbah sepunya
completing the square	melengkapkan kuasa dua

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
complex fractional expressions	ungkapan pecahan kompleks
compositions of functions	penggubahan fungsi
compound interest	faedah kompaun
constant function	fungsi malar
cosecant	kosekan
cosine	kosinus
cotangent	kotangen
degree of a polynomial	darjah polinomial
difference of two perfect squares	perbezaan dua punca kuasa dua sempurna
direct variation	perubahan langsung
discriminant	diskriminan
domain	domain
double and half angle formulas for trigonometric function	formula sudut dua dan separuh untuk fungsi trigonometri
double root	punca dua
$e$	$e$
equation	persamaan
equivalent forms	bentuk bersamaan
exact value	nilai tepat
expand a binomial	memperluaskan binomial
explicit definition	takrif eksplisit
exponential form	bentuk eksponen
exponential function	fungsi eksponen
extraneous root	punca kuasa luaran
factor	faktor
fractional exponent	eksponen pecahan
frequency (of a periodic function)	kekerapan (fungsi berkala)
function	fungsi
function notation	notasi fungsi
geometric sequence	urutan geometri
geometric series	siri geometri
graphical solution of equations	penyelesaian grafik persamaan
greatest common factor (GCF)	faktor umum yang paling besar (GCF)
growth factor	faktor pertumbuhan
half-life	separuh hayat
$i$	$i$
identities	identiti
initial side of an angle	sisi awal sudut
inverse function	fungsi songsang
inverse trigonometric functions	fungsi trigonometri songsang
inverse variation	variasi songsang
law of Cosines	undang-undang Kosinus
laws of Sines	undang-undang Sinus
laws of exponents	undang-undang eksponen
laws of logarithms	undang-undang logaritma
linear equation	persamaan linear

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
linear expression	ungkapan linear
linear systems	sistem linear
logarithm	logaritma
logarithmic form	bentuk logaritma
lowest terms	istilah terendah
nature of the roots	jenis punca kuasa
negative exponent	eksponen negatif
$n$ th root	punca kuasa $n$
$n$ th term	sebutan $n$
one cycle of a trigonometric function	satu kitaran fungsi trigonometri
one-to-one function	fungsi satu sama satu
onto	ke atas
opposite side in a right triangle	sisi bertentangan dalam segitiga tepat
ordinate	ordinat
parabola	parabola
parameter	parameter
period (of a function)	tempoh (bagi fungsi)
periodic function	fungsi berkala
phase shift	peralihan fasa
polynomial expression	ungkapan polinomial
polynomial function	fungsi polinomial
Powers of $i$	Kuasa $i$
Pythagorean identities	Identiti Pythagorean
quadrant angle	sudut kuadran
quadratic equation	persamaan kuadratik
quadratic formula	formula kuadratik
quadratic inequality	ketidaksamaan kuadratik
quadratic trinomial	trinomial kuadratik
radius	jejari
range (of a function)	julat (bagi fungsi)
rational coefficient	pekali rasional
rational equation	persamaan rasional
rational expression	ungkapan rasional
rational inequality	ketidaksamaan rasional
rationalize denominators	menjadikan pembawah terukur
reciprocal trigonometric functions	fungsi trigonometri salingan
recursive definition	takrif rekursif
reference angle	sudut rujukan
relation	hubungan
replacement	penggantian
represent	mewakili
restricted domain	domain terhad
resultant	keputusan
right triangle trigonometry	trigonometri segitiga tepat
root of an equation	punca persamaan
secant (of an angle)	sekan (bagi sudut)



## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
sigma notation	notasi sigma
sine	sinus
solution set	set penyelesaian
standard position (of an angle)	kedudukan standard (bagi sudut)
subset	subset
sum and product or roots of a quadratic equation	jumlah dan produk atau punca persamaan kuadratik
sum of an arithmetic series	jumlah siri aritmetik
sum of a geometric series	jumlah siri geometri
systems of equations/inequalities	sistem persamaan/ketidaksamaan
tangent (of an angle)	tangen (sudut)
technology	teknologi
terminal side of an angle	sisi terminal sudut
transformation	transformasi
transformations of functions and relations	transformasi fungsi dan hubungan
trigonometric equation	persamaan trigonometri
trigonometric functions	fungsi trigonometri
unit circle	bulatan unit
variable	pembolehubah
vector	vektor
vertical line test	ujian garisan menegak
zero of a function	sifar fungsi
zero product property	ciri produk sifar
Geometry	Geometri
absolute value	nilai mutlak
absolute value equation	persamaan nilai mutlak
absolute value inequality	ketidaksamaan nilai mutlak
angle in standard position	sudut pada kedudukan standard
angle of depression	sudut tunduk
angle of elevation	sudut dongak
area of a parallelogram using SAS	luas segiempat selari menggunakan SAS
area of a triangle using SAS	luas segitiga menggunakan SAS
circle	bulatan
coefficient	pekali
function	fungsi
generalize	mengitlak
geometric representation of a circular function	pewakilan geometri fungsi membulat
graph of a relation	graf hubungan
graphical representation	pewakilan grafik
graphical solution of equations	penyelesaian grafik persamaan
investigate	menyiasat
ordered pair	pasangan tersusun
parabola	parabola
rational coefficient	pekali rasional
rectangular coordinates	koordinat segi empat

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
relation	hubungan
root of an equation	punca persamaan
sector of a circle	sektor bulatan
slope	lereng
triangle	segitiga
vertex	puncak
visualization	visualisasi
Measurement	Ukuran
arc length	panjang lengkok
degree measure	ukuran darjah
measure of central angle	ukuran sudut pusat
minute	minit
radian measure	ukuran radian
Statistics and Probability	Statistik dan Kebarangkalian
at least	sekurang-kurangnya
at most	paling banyak
Bernoulli experiments	Eksperimen Bernoulli
biased sample	sampel berat sebelah
bimodal	bimodal
binomial probability formula	formula kebarangkalian binomial
bivariate data	data bivariat
central tendency	kecenderungan utama
combination	gabungan
compound event	peristiwa majmuk
conjecture	tekaan
controlled experiment	eksperimen terkawal
correlation coefficient	pekali korelasi
counting principle	prinsip pengiraan
exactly	tepat-tepat
experimental probability	kebarangkalian eksperimen
extrapolate	ekstrapolasi
frequency (of a data set)	kekerapan (bagi set data)
frequency distribution	pengagihan kekerapan
grouped frequency distribution	pengedaran kekerapan berkumpulan
index in statistics	indeks dalam statistik
interpolate	interpolasi
interquartile range	julat antara kuartil
least squares regression line	garis regresi paling kurang segiempat
line of best fit	garis paling padan
linear regression	regresi linear
mean	min
measure of central tendency	ukuran kecenderungan pusat
measure of dispersion	ukuran penyebaran
median	median

## ALGEBRA 2 - HIGH SCHOOL LEVEL

ENGLISH	MALAY
mode	mod
normal curve	lengkung biasa
normal distribution	pengedaran normal
observation	pemerhatian
outlier	terpisah
Pascal's triangle	Segitiga Pascal
percentile	persentil
permutation	permutasi
probability	kebarangkalian
quartiles	kuartil
random sample	sampel rawak
range (of a data set)	julat (bagi set data)
regression equation	persamaan regresi
regression model	model regresi
sample space	ruang sampel
scatter plot	plot sepah
standard deviation (population)	sisihan piawai (penduduk)
standard deviation (sample)	sisihan piawai (sampel)
statistics	statistik
survey	tinjauan
technology	teknologi
theoretical probability	kebarangkalian teori
univariate data	data univariat
variance (population)	varians (penduduk)
variance (sample)	varians (sampel)

## NYS Grades 9 – 12 Math Terms Addenda

Common Core Math Standard	ENGLISH	MALAY
N-RN.B.3	non-zero rational number	nombor nisbah bukan sifar
A-SSE.A.1	difference of squares, example: $(a^2 - b^2)$	perbezaan kuasa dua, contoh: $(a^2 - b^2)$
A-SSE.A.1	square of a difference, example: $(a - b)^2$	kuasa dua perbezaan, contoh: $(a - b)^2$
A-SSE.B.3	equivalent monthly interest rate	kadar faedah bulanan setara
A-CED.A.1	exponential equation	persamaan eksponen
A-CED.A.3	non-viable options (inequalities)	pilihan tidak berdaya maju (ketidaksamaan)
A-CED.A.3	viable options (inequalities)	pilihan berdaya maju (ketidaksamaan)
A-REI.A.1	viable argument	argumen berdaya maju
A-REI.D.12	half-plane	setengah satah
A-REI.D.11	logarithm function	fungsi logaritma
F-IF.C.8	piece-wise defined function	fungsi takrifan cebis demi cebis
F-IF.C.8	step function	fungsi langkah
F-IF.C.8	absolute-value function	fungsi nilai mutlak
F-BF.A.1	recursive process	proses rekursif
F-Bf.B.3	even function	fungsi genap
F-BF.B.3	odd function	fungsi ganjil
F-LE.A.1	constant percent rate	kadar peratus malar
S-ID.B.5	categorical data	data kategori
S-ID.B.5	joint frequency	kekerapan bersama
S-ID.B.5	marginal frequency	kekerapan marginal
S-ID.B.5	conditional relative frequency	kekerapan relatif bersyarat
S-ID.B.6	fit of a function	sesuai dengan fungsi
S-ID.B.6	residuals	baki
S-ID.C.8	correlation coefficient	pekali korelasi
S-ID.C.8	linear fit	padan linear
S-ID.C.9	correlation and causation	korelasi dan penyebaban
S-ID.C8	linearity	kelinearan
S-ID.C8	linear phenomenon	fenomena linear
N-Q.A.3	data point	titik data
N.C.N.4	complex plane	satah kompleks
N.C.N.5	conjugation of complex numbers	konjugasi nombor kompleks
N-V.M.6	incidence relationship (payoff)	hubungan insiden (pembayaran)
N-Q.A.2	descriptive modeling	pemodelan deskriptif
S-REI.A.2	algebraic manipulation	manipulasi algebra

### 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