English - Welsh

English	Welsh
abelian	abel
addition	adiad
adjacency matrix	matrics cyfagosrwydd
adjoint	atgyd
adjugate	atgydiol
ambient	amgylchol
analytic	analytig
ansatz	ansatz
antiderivative	gwrthddeilliad
antipode	cyferbwynt
anulus	anwlws
approximate	brasamcanu
arbitrary	mympwyol
argument	arg
articulation point	pwynt cynaniad
associative	cysylltiadol
associativity	cysylltiadedd
augmented matrix	matrics estynedig
autonomous	awtonomaidd
auxiliary equation	hafaliad ategol
axiom	gwireb
backtracking	gwrthgilio
basis	sail
bijective	deusaethol
bilinear	deulinol
binary operation	gweithrediad deuaidd
bipartite	deurannol
bisect	hanerydd
bound	arffin
boundary	ffin
boundary conditions	amodau ffin
bounded above	ffinedig uchod
bounded below	ffinedig isod
bracket	cromfach
branch and bound	dull canghenu ac arffiniau
breadth	lled
candidate solution	datrysiad ymgais
cardinality	prifoledd
cartesian form	ffurf cartesaidd
chinese postman problem	problem y dyn bost tsieineaidd
circuit	cylchred

English	Welsh
circumscribed circle	amgylch
closedness	caeoldeb
closure	caefa
coefficient	cyfernod
collinear	unllin
combinatorial	cyfuniadol
comlex conjugate	cyfiau cymhlyg
commutative	cymudol
commutativity	cymudedd
complement	cyflenwad
complex differentiable	differadwy cymhlyg
complex numbers	rhifau cymhlyg
composite	cyfansawdd
concave	ceugrwm
concurrent	cytgroes
congruency	cyfathiant
connected	cysylltiedig
connectivity	cysylltedd
conservative	cadwrol
continuous	di-dor
continuously differentiable	differadwy yn ddi-dor
contour integral	integryn amlin
contradiction	gwrthddywediad
converge	cydgyfeirio
convergent	cydgyfeiriol
convex	amgrwm
convexity	amgrymedd
coordinate vector	fector cyfesurynnau
correlation	cydbethyniad
cumulative distribution function	ffwythiant dosraniad cronnus
cycle	cylchlwybr
cylindrical	silindrog
debug	datbygio
decent method	dull disgyniad
decomposition	dadelfeniad
decreasing	lleihaol
deformation	anffurfiad
degenerate	dirywiedig
degree	gradd
delimit	amffinio
denominator	enwadur

English	Welsh	English	Welsh
depth	dyfnder	geodesic	geodesig
derivative	deilliad	global optimum	optimwm eang
diagonal	croeslin	group	grŵp
diagonalisability	croeslinedd	heuristic	dull hewristig
diagonalisable	croeslinadwy	holomorphic	holomorffig
differentiability	differadwyedd	homogeneous	homogenaidd
differentiable	differadwy	homomorphism	homomorffedd
differential-difference equation	hafaliad gwahaniaeth-differol	identity	unfathiant
dilation	ymlediad	identity matrix	matrics unfathol
dimension	dimensiwn	implicit	ymhlyg
directed graph	graff cyfeiriedig	improper integral	integryn afreolaidd
directional derivative	deilliad cyfeiriadol	incident (graph theory)	trawol
discrete	arwahanol	increasing	cynyddol
disjoint set	set digyswllt	indentation	mewnoliadau
distributivity	dosbarthedd	indicial equation	hafaliad indecsol
diverge	dargyfeirio	infinitesimal	gorfychan
divergent	dargyfeiriol	injective	mewnsaethol
divisible	rhanadwy	inner product	lluoswm mewnol
domain	parth	inscribe	mewnysgrifio
domain of integration	parth integru	inscribed circle	mewngylch
dynamic programming	rhaglennu deinamig	integer (adjective)	cyfanrifol
edge-weighted graph	graff ymyl-pwysedig	integer (noun)	cyfanrif
ellipse	elips	integrating factor	ffactor integru
endomorphism	endomorffedd	integration by parts	integru fesul rhan
endpoint	diweddbwynt	intermediate value theorem	theorem y gwerth canolraddol
entire	cyfan	intersection	croestoriad
equality	hafaledd	intractable	anhydrin
equivalence relation	perthynas cywerthedd	intractibility	anhydrinedd
error function	ffwythiant cyfeiliornad	inverse	gwrthdro
espression	mynegiad	isometry	isometreg
estimation lemma	lemma amcangyfrif	isomorphic	isomorffig
even function	eil-ffwythiant	joint distribution	cyd-ddosraniad
extrema	eithafion	kernal	cnewyllyn
factorisation	ffactoriad	kurtosis	cwrtosis
feasible	dichonadwy	length	hyd
field	maes	limit	terfan
finite	meidraidd	linear combination	cyfuniad llinol
function	ffwythiant	linear dependence	dibyniaeth linol
functional	fwythiannol	linear independence	annibyniaeth linol
fundemental theorem of calculus	theorem sylfaenol calcwlws	linear programming	rhaglennu llinol
generating function	ffwythiant generadu	linear transformation	trawsffurfiant llinol

English	Welsh
linearise	llinelloli
linearly dependent	llinol ddibynnol
linearly independent	llinol annibynnol
local optimum	optimwm lleol
logistc	logistaidd
loop (graph theory)	dolen
lower bound	arffin isaf
lune	lŵn
mapping	mapiad
marginal	ymylol
markov chain	cadwyn markov
markov decision process	proses benderfynu markov
matching	cydweddiad
matrix	matrics
maximum	macsimwm
maximum point	uchafbwynt
median	canolrif
median (triangles)	llin canol
meromorphic	meromorffig
metric space	gofod metrig
minimum	minimwm
minimum point	isafbwynt
minor	lleddf
monotone	monoton
multi-objective	amlamcan
multigraph	aml-graff
multiplicity	lluosogrwydd
multiplier	lluosydd
multiset	aml-set
mutually exclusive	cydanghynhwysol
n-periodic	n-cyfnodol
n-tuple	n-blyg
negation	negyddiad
nilpotent	nilpotent
non-decreasing	anleihaol
non-degenerate	annirywiedig
non-empty	anwag
non-increasing	digynnydd
non-negative	annegatif
non-trivial	annistadl
nonlinear	aflinol

English	Welsh
nullity	dirymiad
numerator	rhifiadur
odd function	od-ffwythiant
operation	gweithrediad
operational research	ymchwil weithrediadol
operations	gweithrediadau
ordered pairs	parau trefnedig
ordinary point	pwynt arferol
orientation-preserving	cadw-cyfeiriadaeth
orientation-reversing	gwrthdroi-cyfeiriadaeth
origin	tarddbwynt
parameterisation	paramedriad
parameterise	paramedreiddiwch
partial derivative	deilliad rhannol
partition	ymraniad
path	llwybr
percentile	canradd
permutations	trynewidion
phase curve	cromlin gwedd
piecewise	fesul rhan
plane	plân
polar form	ffurf pegynlinol
pole	pegwn
power set	set pŵer
precision	trachywriedd
prime number	rhif cysefin
principal value	penrhif
principle argument	prif arg
probability density function	ffwythiant dwysedd tebygolrwydd
probability mass function	ffwythiant màs tebygolrwydd
pseudo-random number	ffug-haprif
quadrant	pedrant
quantifier	meintiolydd
quantile	cwantel
quartile	chwartel
queueing	ciwio
quotient	cyniferydd
radical	radical
random decent	hap-ddisgyniad
random event	hapddigwyddiad
random number	haprif

English	Welsh
random variable	hapnewidyn
randomness	haprwydd
range	amrediad
rank	ranc
rational numbers	rhifau cymarebol
real numbers	rhifau real
reciprocal	cilydd
recurrance relation	perthynas ailadroddadwy
recursion	dychweliad
recursive	dychweliadol
reduced row echelon form	ffurf echelon rhes gostyngol
reflexive	ymatblyg
reflexivity	ymatblygedd
regular singular point	hynodyn rheolaidd
residue	gwaddod
resource allocation problem	problem dosbarthu adnoddau
reverse triangle inequality	anhafaledd triongl gwrthwyneb
roots of unity	gwreiddiau un
rural postman problem	problem y dyn bost gwledig
saddle point	pwynt ffurfdro
sandwich theorem	theorem gwasgu
scalar multiplication	lluosiad sgalar
semi-axis	lled-echelin
separable differential equation	hafaliad differol gwahanadwy
sequence	dilyniant
series expansion	ehangiad cyfres
sesquilinear	sescwilinol
set	set
simply connected region	rhanbarth cysylltiedig syml
simulated annealing	ffug-anelio
simulation (object)	efelychiad
simulation (process)	efelychu
singular	hynod
singular point	hynodyn
singularity	hynodyn
sink (graph theory)	suddfan
skew-symmetric	sgiw-gymesur
skewness	sgiwedd
smooth	llyfn
solution space	gofod datrysiadau
source (graph theory)	tarddle

English	Welsh
span	rhychwant
spanning	rhychwantu
spanning tree	coeden rhychwantu
sparse	gwasgarog
spherical coordinates	cyfesurynnau sfferig
star centre	canol serennol
starlit region	rhanbarth seren oleuol
stationary point	pwynt arhosol
stochastic	stocastig
strong principle of induction	egwyddor gref anwythiad
subgroup	is-grŵp
subset	is-set
subspace	is-ofod
subtraction	tynnu
summation	symiant
surface	arwyneb
surjective	arsaethol
symmetric matrix	matrics cymesur
tabu search	chwiliad tabŵ
tangent	tangiad
trace	olin
transcendental	trosgynnol
transform	trawsffurf
transitive	trosaidd
transitivity	transitifiaeth
translation	trawsfudiad
transportation problem	problem trafnidiaeth
transpose	trawsddodyn
transposition	trawsddodiad
triangle inequality	anhafaledd triongl
triangulation	triongliant
triple integral	integryn triphlyg
trivial	distadl
truth table	gwirlen
turning point	trobwynt
unbounded	diarffin
union	uniad
unique	unigryw
unit circle	cylch uned
universal set	set gynhwysol
upper bound	arffin uchaf

English	Welsh
upper triangular	trionglog uchaf
validation	dilysu
variable	newidyn
variation of constants	amrywio cysonion
vector	fector
vector space	gofod fector
verification	gwireddu
weight (multiplier)	pwysolyn
well defined	clir-ddiffiniedig
with respect to	mewn perthynas â
zero	sero

Cymraeg - Saesneg

Cymraeg	Saesneg
abel	abelian
adiad	addition
aflinol	nonlinear
amffinio	delimit
amgrwm	convex
amgrymedd	convexity
amgylch	circumscribed circle
amgylchol	ambient
aml-graff	multigraph
aml-set	multiset
amlamcan	multi-objective
amodau ffin	boundary conditions
amrediad	range
amrywio cysonion	variation of constants
analytig	analytic
anffurfiad	deformation
anhafaledd triongl	triangle inequality
anhafaledd triongl gwrthwyneb	reverse triangle inequality
anhydrin	intractable
anhydrinedd	intractibility
anleihaol	non-decreasing
annegatif	non-negative
annibyniaeth linol	linear independence
annirywiedig	non-degenerate
annistadl	non-trivial
ansatz	ansatz
anwag	non-empty
anwlws	anulus
arffin	bound
arffin isaf	lower bound
arffin uchaf	upper bound
arg	argument
arsaethol	surjective
arwahanol	discrete
arwyneb	surface
atgyd	adjoint
atgydiol	adjugate
awtonomaidd	autonomous
brasamcanu	approximate
cadw-cyfeiriadaeth	orientation-preserving
cadwrol	conservative

Cymraeg	Saesneg
cadwyn markov	markov chain
caefa	closure
caeoldeb	closedness
canol serennol	star centre
canolrif	median
canradd	percentile
ceugrwm	concave
chwartel	quartile
chwiliad tabŵ	tabu search
cilydd	reciprocal
ciwio	queueing
clir-ddiffiniedig	well defined
cnewyllyn	kernal
coeden rhychwantu	spanning tree
croeslin	diagonal
croeslinadwy	diagonalisable
croeslinedd	diagonalisability
croestoriad	intersection
cromfach	bracket
cromlin gwedd	phase curve
cwantel	quantile
cwrtosis	kurtosis
cyd-ddosraniad	joint distribution
cydanghynhwysol	mutually exclusive
cydbethyniad	correlation
cydgyfeirio	converge
cydgyfeiriol	convergent
cydweddiad	matching
cyfan	entire
cyfanrif	integer (noun)
cyfanrifol	integer (adjective)
cyfansawdd	composite
cyfathiant	congruency
cyferbwynt	antipode
cyfernod	coefficient
cyfesurynnau sfferig	spherical coordinates
cyfiau cymhlyg	comlex conjugate
cyflenwad	complement
cyfuniad llinol	linear combination
cyfuniadol	combinatorial
cylch uned	unit circle

Cymraeg	Saesneg
cylchlwybr	cycle
cylchred	circuit
cymudedd	commutativity
cymudol	commutative
cyniferydd	quotient
cynyddol	increasing
cysylltedd	connectivity
cysylltiadedd	associativity
cysylltiadol	associative
cysylltiedig	connected
cytgroes	concurrent
dadelfeniad	decomposition
dargyfeirio	diverge
dargyfeiriol	divergent
datbygio	debug
datrysiad ymgais	candidate solution
deilliad	derivative
deilliad cyfeiriadol	directional derivative
deilliad rhannol	partial derivative
deulinol	bilinear
deurannol	bipartite
deusaethol	bijective
di-dor	continuous
diarffin	unbounded
dibyniaeth linol	linear dependence
dichonadwy	feasible
differadwy	differentiable
differadwy cymhlyg	complex differentiable
differadwy yn ddi-dor	continuously differentiable
differadwyedd	differentiability
digynnydd	non-increasing
dilyniant	sequence
dilysu	validation
dimensiwn	dimension
dirymiad	nullity
dirywiedig	degenerate
distadl	trivial
diweddbwynt	endpoint
dolen	loop (graph theory)
dosbarthedd	distributivity
dull canghenu ac arffiniau	branch and bound

Cymraeg	Saesneg
dull disgyniad	decent method
dull hewristig	heuristic
dychweliad	recursion
dychweliadol	recursive
dyfnder	depth
efelychiad	simulation (object)
efelychu	simulation (process)
egwyddor gref anwythiad	strong principle of induction
ehangiad cyfres	series expansion
eil-ffwythiant	even function
eithafion	extrema
elips	ellipse
endomorffedd	endomorphism
enwadur	denominator
fector	vector
fector cyfesurynnau	coordinate vector
fesul rhan	piecewise
ffactor integru	integrating factor
ffactoriad	factorisation
ffin	boundary
ffinedig isod	bounded below
ffinedig uchod	bounded above
ffug-anelio	simulated annealing
ffug-haprif	pseudo-random number
ffurf cartesaidd	cartesian form
ffurf echelon rhes gostyngol	reduced row echelon form
ffurf pegynlinol	polar form
ffwythiant	function
ffwythiant cyfeiliornad	error function
ffwythiant dosraniad cronnus	cumulative distribution function
ffwythiant dwysedd tebygolrwydd	probability density function
ffwythiant generadu	generating function
ffwythiant màs tebygolrwydd	probability mass function
fwythiannol	functional
geodesig	geodesic
gofod datrysiadau	solution space
gofod fector	vector space
gofod metrig	metric space
gorfychan	infinitesimal
gradd	degree
graff cyfeiriedig	directed graph

Cymraeg	Saesneg
graff ymyl-pwysedig	edge-weighted graph
grŵp	group
gwaddod	residue
gwasgarog	sparse
gweithrediad	operation
gweithrediad deuaidd	binary operation
gweithrediadau	operations
gwireb	axiom
gwireddu	verification
gwirlen	truth table
gwreiddiau un	roots of unity
gwrthddeilliad	antiderivative
gwrthddywediad	contradiction
gwrthdro	inverse
gwrthdroi-cyfeiriadaeth	orientation-reversing
gwrthgilio	backtracking
hafaledd	equality
hafaliad ategol	auxiliary equation
hafaliad differol gwahanadwy	separable differential equation
hafaliad gwahaniaeth-differol	differential-difference equation
hafaliad indecsol	indicial equation
hanerydd	bisect
hap-ddisgyniad	random decent
hapddigwyddiad	random event
hapnewidyn	random variable
haprif	random number
haprwydd	randomness
holomorffig	holomorphic
homogenaidd	homogeneous
homomorffedd	homomorphism
hyd	length
hynod	singular
hynodyn	singular point
hynodyn	singularity
hynodyn rheolaidd	regular singular point
integru fesul rhan	integration by parts
integryn afreolaidd	improper integral
integryn amlin	contour integral
integryn triphlyg	triple integral
is-grŵp	subgroup
is-ofod	subspace

Cymraeg	Saesneg
is-set	subset
isafbwynt	minimum point
isometreg	isometry
isomorffig	isomorphic
lemma amcangyfrif	estimation lemma
lled	breadth
lled-echelin	semi-axis
lleddf	minor
lleihaol	decreasing
llin canol	median (triangles)
llinelloli	linearise
llinol annibynnol	linearly independent
llinol ddibynnol	linearly dependent
lluosiad sgalar	scalar multiplication
lluosogrwydd	multiplicity
lluoswm mewnol	inner product
lluosydd	multiplier
llwybr	path
llyfn	smooth
logistaidd	logistc
lŵn	lune
macsimwm	maximum
maes	field
mapiad	mapping
matrics	matrix
matrics cyfagosrwydd	adjacency matrix
matrics cymesur	symmetric matrix
matrics estynedig	augmented matrix
matrics unfathol	identity matrix
meidraidd	finite
meintiolydd	quantifier
meromorffig	meromorphic
mewn perthynas â	with respect to
mewngylch	inscribed circle
mewnoliadau	indentation
mewnsaethol	injective
mewnysgrifio	inscribe
minimwm	minimum
monoton	monotone
mympwyol	arbitrary
mynegiad	espression

Cymraeg	Saesneg
n-blyg	n-tuple
n-cyfnodol	n-periodic
negyddiad	negation
newidyn	variable
nilpotent	nilpotent
od-ffwythiant	odd function
olin	trace
optimwm eang	global optimum
optimwm lleol	local optimum
paramedreiddiwch	parameterise
paramedriad	parameterisation
parau trefnedig	ordered pairs
parth	domain
parth integru	domain of integration
pedrant	quadrant
pegwn	pole
penrhif	principal value
perthynas ailadroddadwy	recurrance relation
perthynas cywerthedd	equivalence relation
plân	plane
prif arg	principle argument
prifoledd	cardinality
problem dosbarthu adnoddau	resource allocation problem
problem trafnidiaeth	transportation problem
problem y dyn bost gwledig	rural postman problem
problem y dyn bost tsieineaidd	chinese postman problem
proses benderfynu markov	markov decision process
pwynt arferol	ordinary point
pwynt arhosol	stationary point
pwynt cynaniad	articulation point
pwynt ffurfdro	saddle point
pwysolyn	weight (multiplier)
radical	radical
ranc	rank
rhaglennu deinamig	dynamic programming
rhaglennu llinol	linear programming
rhanadwy	divisible
rhanbarth cysylltiedig syml	simply connected region
rhanbarth seren oleuol	starlit region
rhif cysefin	prime number
rhifau cymarebol	rational numbers

Cymraeg	Saesneg
rhifau cymhlyg	complex numbers
rhifau real	real numbers
rhifiadur	numerator
rhychwant	span
rhychwantu	spanning
sail	basis
sero	zero
sescwilinol	sesquilinear
set	set
set digyswllt	disjoint set
set gynhwysol	universal set
set pŵer	power set
sgiw-gymesur	skew-symmetric
sgiwedd	skewness
silindrog	cylindrical
stocastig	stochastic
suddfan	sink (graph theory)
symiant	summation
tangiad	tangent
tarddbwynt	origin
tarddle	source (graph theory)
terfan	limit
theorem gwasgu	sandwich theorem
theorem sylfaenol calcwlws	fundemental theorem of calculus
theorem y gwerth canolraddol	intermediate value theorem
trachywriedd	precision
transitifiaeth	transitivity
trawol	incident (graph theory)
trawsddodiad	transposition
trawsddodyn	transpose
trawsffurf	transform
trawsffurfiant llinol	linear transformation
trawsfudiad	translation
triongliant	triangulation
trionglog uchaf	upper triangular
trobwynt	turning point
trosaidd	transitive
trosgynnol	transcendental
trynewidion	permutations
tynnu	subtraction
uchafbwynt	maximum point

Cymraeg	Saesneg
unfathiant	identity
uniad	union
unigryw	unique
unllin	collinear
ymatblyg	reflexive
ymatblygedd	reflexivity
ymchwil weithrediadol	operational research
ymhlyg	implicit
ymlediad	dilation
ymraniad	partition
ymylol	marginal