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mathematics vocabulary

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## A-B

- a posteriori
- a priori
- abstract
- abuse
- acute
- ad hoc
- add, addition
- adjacent
- adjoint
- affine
- alphabet
- analogous, analogy
- analysis, analytic
- angle
- ansatz
- apex
- applied
- approximate
- arc
- area
- argument
- assume, assumption
- asymptote
- autonomous
- axiom, axiomatic
- azimuth
- basis
- boundary
- bounded
- branch
- bundle (as in tangent bundle)

## C

- calculate
- calculus
- canonical
- Cartesian
- category
- cell
- character
- characterization
- chord
- circular (as in circular argument and <http://planetmath.org/CircularReasoning> circular reasoning)
- circulation
- class
- classic
- clear, clearly
- closed, closure
- collapse
- compact
- compass
- complete
- complex
- concave, concavity
- concrete
- condition
- cone
- conformal

- congruence, congruent
- conjecture
- conjugate, conjugation
- connected
- constrain, constraint
- construct, constructible,  
<http://planetmath.org/CompassAndStraightedgeConstruction>constructive
- contact
- continuous
- continuum
- contract, contraction
- contractible
- convex, convexity
- coordinate
- corollary
- countable
- counterexample
- contradiction
- convergence, convergent
- cover, covering
- criteria, criterion
- cross (as in cross product and cross section)
- crystalline
- curve
- curvilinear
- cut

## D-F

- deduce, deduction
- dependence, dependent
- definition, define
- deformable, deformation
- degree
- dense
- derivation
- derivative
- difference
- different
- differentiate, differentiation
- dilate, dilation
- dilemma
- divergence
- divide, division
- divides, divisible, divisor
- domain
- dual
- embedding
- empty
- envelope
- equal
- evaluate, evaluation
- even
- evident
- evolute
- exact (as in exact sequence)
- exhaust, exhaustion
- existential
- expected

- explicit
- expression
- extend, extension
- false
- field
- fix, fixed
- focus
- form
- formal
- formula, formulae
- fractal
- function
- functional

## G-L

- general, generalization
- generate, generating, generator
- genus
- graph
- group
- handwaving
- harmonic
- height
- heuristics
- homogeneous
- hyper-
- hypothesis
- ideal
- if and only if, iff
- imaginary
- implication, implies, imply
- implicit
- identification, identify
- identity
- independence, independent
- index
- induce
- induction
- inert, inertia
- inferior (as in limit inferior)
- infinite, infinity
- inject, injection
- integer
- integral
- integrate, integration
- interior
- intersect, intersection
- invariance, invariant
- inverse
- invertible
- irrational
- join
- kernel
- kurtosis
- language
- lattice
- leg
- lemma
- length
- lift, lifting
- limit
- line
- linear
- logic

## M-Q

- manifold
- map, mapping
- matrix
- meager
- mean
- measure, measurable
- median
- model
- module
- mutatis mutandis
- necessary
- negative
- nerve
- nested
- normal
- notation
- null
- number
- obtuse
- obvious
- odd
- open
- operation
- order
- orthogonal
- oscillating
- <http://planetmath.org/Paradoxparadox>
- partial
- partition
- path
- pathological
- PDE
- perimeter
- period, periodic, periodicity
- piecewise
- plane
- point
- polar
- positive
- postulate
- potential
- power
- prime
- primitive
- product
- productivity
- project, projection
- proper
- proposition
- pyramid
- QED, Q.E.D.
- QEF, Q.E.F.
- quotient

## R-S

- radical
- radius, radii
- ramification, ramified, ramify
- range
- rank

- ratio
- rational
- razor (as in Oc-  
cam's razor)
- real
- reduce, reduced,  
reduction
- reflexive
- region
- regular
- relation
- remainder
- represent, repre-  
sentation
- resolvent
- rest
- restrict, restric-  
tion
- rig
- rigid
- ring
- root
- rotation
- rotor
- sector
- self-
- segment
- semi-
- sequence
- series
- similar
- simple
- singleton
- singular
- sink
- slope
- smash (as in  
smash product)
- smooth
- solid
- solution
- source
- space
- spectral (as in  
spectral radius  
and spectral se-  
quence)
- spectrum
- sphere, spherical
- split
- square
- square root
- star, star-shaped
- strength
- strict
- structure
- subset
- subtract, subtrac-  
tion
- sufficient
- sum, summation
- superior (as in  
limit superior)
- suppose, supposi-  
tion
- surface
- suspension
- symbol
- symmetry

## T-Z

- tame
- tangent
- tautology
- tensor, tensorial
- term
- TFAE, the following are equivalent
- theorem
- theoretical
- topology
- total
- toy (as in toy theorem)
- trajectory
- transcend, transcendence, transcendental
- transient
- translate, translation
- triangle, triangular
- trivial
- true
- type
- uniform, uniformly
- unique, uniqueness
- unit, unity
- universal
- universe
- vacuous
- valuation
- value
- vanish
- variable
- variance
- variation
- variational (as in variational calculus)
- variety
- vector, vectorial
- volume
- wedge (as in wedge product)
- well defined, well-defined
- wild
- WLOG, WOLOG, without loss of generality
- word
- <http://planetmath.org/Rootzero>, zeroes, zeros