

Abbildung - mapping; (sometimes) illustration
aber - but, however, yet
abfassen - compose, write up, draw up, word
Abfassung - writing, formulation, wording
Abgrenzung - definition
abhängen - depend on
Abkürzung - contraction, abbreviation, abridgement
ableiten - lead out of; deduce
Ableitung - derivative, derivation; deduction
ablesen - pick (off), read (off), read out
abmachen - settle, arrange; undo, untie
Abmachung - arrangement, settlement
abnehmen - decrease, take off, remove
Abnehmen - reduction (see verb abnehmen)
Absatz - pause, break, indentation; paragraph
abschätzen - estimate, calculate, assess, appraise, etc.
Abschätzung - estimate, appraisal, valuation
Abschnitt - intersection; segment; cut, paragraph, part,

section

Abschnitt auf der x--Achse - x-intercept
absehen - foresee
absehen von - disregard; refrain from
absolut - absolute, unconditional, perfectly, utterly
Abstand - distance
absteigen - descend, come or go down
abzählbar - countable
Abzählbarkeit - countability
abzählen - count, enumerate
achten (auf) - pay attention (to)
ähnlich - alike, like, similar
all - all, every, any
allein - only, merely, solely; alone
allerdings - certainly (strongest possible affirmative

answer)

allgemein - general, universal
allmählich - gradually, little by little
alsdann - then, thereupon, whereupon, after that
analog - analogous
Anblick - look, view
andere - other; next
andererseits - on the other hand
andern - alter, change, modify, amend
Anderung - change, alteration, modification

andeuten - indicate, suggest, hint at, allude to, imply
Anfang - origin, beginning, start
anfangen - start, begin, commence
angeben - indicate, state
angehören - be a member (of)
angewandt - applied
angrenzen - border, adjoin
Anhang - appendix, codicil
ankommen - arrive (at); es kommt derauf an = it is a matter of
Anlass - motive, motivation; cause, occasion, incentive, reason
Annäherung - approach
Annahme - acceptance, adoption
annehmen - accept, take, assume, suppose
anordnen - arrange, order, command, direct, set in order
Anordnung - arrangement
anpassen - fit, adapt, adjust, accommodate
Ansage - announcement
ansagen - announce, declare
anschaffen - procure, get
anschliessend - subsequent (to), adjacent (to); next
Anschluss - connection, union
ansehen - look at, have a look at
ansetzen - put (on), apply (to); begin
Anspruch - claim
Anstoss - impact, impulse
anstossen - bump against, adjoin
anstreben - strive for
anwenden - employ, use, make use of
Anwendung - application
Anzahl - number, quantity
anzusehen - see ansehen
arbeiten - work
Art - kind, sort, class
auch - also, too
auf - on, upon, on top of
auf Grund - on the basis (of)
aufbauen - construct
auffassen - comprehend, grasp, understand
Aufgabe - exercise, problem
aufgehen - divide exactly
Auflösung - solution, resolution (of)
aufschreiben - write down
Aufstellung - assertion; list, table
auftragen - instruct, order, serve, put on

auftreten - appear, occur, behave, act, proceed
Auftritt - appearance, entrance
Augenblick - moment, instant
aus - from, out of
ausarten - get out of hand, degenerate into
Ausblick - view, outlook, prospect
ausdehnen - stretch, expand, extend
Ausdehnung - stretching, expansion
ausdrücklich - explicit, explicitly
Ausdruck - expression, phrase, term
ausdrucken - express, put into (a form, words)
ausführlich - detailed, in detail, full
Ausführung - execution, construction; explanation
ausgehen - proceed from
ausgewählt - selected, chosen, choice
ausgezeichnet - excellent
ausmachen - consist of, make up, add or amount up to,

constitute

Ausnahme - exception
ausnahmslos - without exception
ausreichen - suffice
ausreichend - adequate, sufficient, enough
Aussage - assertion, statement
aussagen - state, express, declare
Aussenrand - outer boundary
Aussenwelt - environment, world, outside world
ausser - out of, outside
ausserdem - besides, in addition, moreover, as well as
ausserhalb - outside, out of
ausstreichen - cross out, delete, erase; smooth out
Auswahl - choice, selection, assortment
auswählen - choose, select, pick out, fix on
auswerten - evaluate
auszahlen - count
auszeichnen - designate (notation), mark
Auszeichnung - labelling; distinction

Band - volume (as of a book)
Bauart - structure, build, type, model
bauen - build, erect, make, manufacture
beachten - note, pay attention to
bedecken - cover

bedenken - consider, weigh, ponder
 Bedenken - thought, reflection, deliberation
 bedeuten - mean or signify
 bedienen - wait on, serve
 bedingen - cause, determine, or condition
 Bedingung - condition, stipulation
 befassen - touch, handle
 befassen sich mit - concern oneself with
 befriedigen - satisfy
 begegnen - meet, come upon
 begnügen (mit) - be satisfied or content (with)
 begrenzt - bounded (restricted, limited, circumscribed)
 Begriff - idea, notion, concept, term
 behandeln - deal with, treat, handle
 behaupten - declare, assert, maintain, retain
 Behauptung - declaration, assertion
 beherrschen - rule, master, control
 Behrührungspunkt - accumulation point, limit point (topology)
 bei - at
 Beibehaltung - retaining
 beiden - two, both, either, neither
 beiderseits - reciprocally, mutually, on both sides
 beim - bei dem
 Beiwort - adjective
 bekannt - well known
 belasten - load, put a load on, make heavy
 belegen - verify (a proof)
 belegt - reserved, coated, husky, busy
 Beleuchtung - elucidation; illumination, lighting
 Belieben - choice, discretion, convenience, liking, pleasure
 belieben - wish
 beliebig(e) - optional, arbitrary
 bemerken - remark, notice, observe
 benötigen - need
 benutzen - use, make use of, employ, utilize
 bequem - comfortable, easy
 Berechnung - calculation
 Bereich - region; (sometimes) open set
 bereits - already
 berücksichtigen - bear in mind, consider
 Berufung - call, vocation, appointment
 beruhen - be based (on); be due (to)
 berühren - touch, mention, affect, pass through, come in

contact

besagen - signify, mean
besagt - aforesaid
beschaffen - procure, provide, supply, get, raise
Beschaffenheit - quality, property
Beschaffung - acquisition; procurement
beschränken - limit, restrict, confine, set limits
beschränkt - bounded, limited
beschreiben - describe
besitzen - possess, own, have
besondere - particular, special
besonders - especially, particularly, in particular
bestatigen - confirm, corroborate, verify
bestehen - exist
Bestehen - existence
bestehen auf - consists of
bestehend - existing, present
bestimmen - determine
bestimmt - determined
betonen - stress, accent, emphasize
Betracht - (in) consideration
betrachten - observe
Betrachtung - observation, reflection, reason
Betrag - value, amount; absolute value
Betrag, absolut - absolute value
betreffen - concern, affect, be relevant to, have to do with,
(to study?)
betrifft - in regards
bewältigen - conquer, overcome, master (difficulties)
bewegen - move, stir
Beweis - proof
beweisen - prove, show, demonstrate
bezeichnen - designate (by), define
Bezeichnung - notation; designation
beziehen (auf) - relate or refer (to); move into
Beziehung - relation, connection, respect
Bezug auf, in - with respect to, in reference to
bezüglich - relative to, relating to
Bezugnahme auf, unter - with reference to
bieten - give, show, offer; present itself
Bild - image
bilden - form, shape, fashion
binar - binary
binden - bind, tie unite, join
bisher - hitherto, up to now, so far

bisherig(an) - as up to the present, former, previous; to date,
so far,
bisweilen - occasionally, sometimes
bleiben - remain, stay, continue
bleiben -- erhalten - remain preserved
Blick - view
bloss - merely, only, simply
brauchen - require
Brief - letter
bringen - bring
Bruch - fraction
Bruch, echte - proper fraction
Buch - book
Bundigkeit - validity, conclusiveness, conciseness, brevity
bzw. - respectively (beziehungsweise)

da - there, because
dabei - by or near it or them, in addition, at the same time
dadurch - thereby, by this means, in that way
dafur - therefore, for it or them, in its place
dagegen - on the contrary, conversely, on the other hand,
nevertheless
daher - therefore
damals - then, in those days, at that time
damit - consequently; thereby, thereupon, with it or them
danach - behind or after it, afterwards, thereupon
dann - then, at that time, after that
daraus - out of this
daraus folgt - hence it follows (that)
dargestellt - described
darin - in it or in them, there
darstellen - represent, portray, present, describe
Darstellung - representation, description
darunter - beneath or under (it or them), in it, among(st) them
dass - that
dasselbe - (denselbe, derselbe, dieselbe, etc.) the same
davon - from it, of it, away from it
definieren - define
denen - (to) them or those, (to) those
denken - think, imagine, mean, intend
denn - than, for, because, unless, except
derart - in such a way or manner, to such an extent
derartig - such, of that kind

deren - of them, (of) that, (of) those
derjenige - (adj) that; (pron) the one; he
derselbe - the same
desgleichen - such a thing; the likes of which; likewise
deshalb - therefore, for this reason
desselbe - the same
deuten - interpret, explain or indicate
d.h. - that is (das heisst)
dicht - dense (in topology); tight, thick
dichten - tighten; write
dichtesten - densest
Dichtigkeit - density; conciseness
diejenige - (adj) that; (pron) the one; he
diesmal - this time
Ding - object, thing, matter
dingen - hire, engage, bargain, haggle
diskutieren - discuss
doch - but, though, yet, however, nevertheless
dort - there, over there, yonder
dortig - in or of that place, there
Dreieck - triangle
drucken - put (into); press; squeeze
durch - through
durchblicken - be apparent or obvious
durchblicken lassen - make apparent
durchdringen - force one's way, penetrate
durchfuhren - take or lead through, accomplish
Durchfuhrung - accomplishment, execution, development
durchlaufen - run or pass through, traverse
dürfen - may, might
Durschnitt - intersection (set-theoretic)

Ebene - plane
ebenfalls - likewise, also, too
ebenso - likewise, in the same manner
echte - genuine, real, true
Eck - corner
Eichkorper - standard ball? unit ball?
Eigenschaft - property, quality
eigentlich - actual; actually, really
einander - one another, each other
eindeutig - unique; unambiguous, clear, plain

Eindeutigkeit - uniqueness
eineindeutig - one to one
einerseits - on the one hand
einfach - simply; simple, easy
Einfluss - influx, influence
einführen - introduce
Einführung - introduction, presentation
Eingang(en) - entries
eingehen - enter into
eingreifen - catch, hold; intervene or interfere in
Einheit - unit
einheiten - unimodular
einig - united, at one
einige - (pron) some, several
einigen - unite, unify; agree
einklammern - bracket, put into parentheses
Einlagerung - deposit, intercalation, storage
einleiten - lead into; introduce
Einleitung - introduction, prelude
einmal - once, at once
einschalten - insert; intervene
einschliessen - include
Einschränkung - restriction
einsehen - inspect, consult, realize
einsetzen - insert, put or place in, substitute
Einsetzung - putting in; substitution?
einstellen - put or place (in the proper place); appear, show

up

einteilen - divide, distribute, classify
Einteilung - classification
einzelnen - individual
einzig - only (darstellen einzig = be unique)
endlich - finite; (final, ultimate)
entdecken - discover, detect, find out
entfernen - move away
entfernt - distant
Entfernung - distance, range
enthalten - hold, contain, comprise, include
Entscheidung - decision
entsprechen - correspond (to)
entsprechend - correspondingly, accordingly
entstehen - originate, arise from
entweder - either
Entwicklung - development (sp. power series)

erfahren - experienced
erfahren - find out, experience
erfordern - require, need, necessitate, render necessary
erfüllen - fill, fulfill, perform, carry out
ergänzen - complete, complement, restore
ergänzend - complementary
ergänzt - completed
ergeben - produce, yield, show, establish, prove
ergeben sich (aus) - result (from)
Ergebnis - result, solution, answer
ergiebig - productive, rich, abundant
erhalten - obtain, get, receive
erhalten - preserved
erinnern - remind
erkennen - make out, recognize, detect, realize
erklären - explain
erlangen - reach, get
erlauben - allow
erlautern - explain, elucidate, comment on
Erläuterung - explanation, illustration
erleichtern - facilitate
ermitteln - ascertain, find out, discover
Ermittlung - determination
ernennen - name, select
erneuern - renew, renovate
eröffnen - open, unseal, disclose, reveal
erörtern - discuss
erreichbar - attainable, accessible, available, within reach

or distance

erreichen - reach, attain, obtain, achieve
Ersatz - replacement, substitution
erscheinen - appear, show itself
Erscheinung - appearance; phenomenon
erschöpft - spent, exhausted, at an end
ersehen - gather (from)
ersetzen - replace, compensate for
Ersetzung - replacement, substitution
ersichtlich - obvious, evident, apparent
ersinnen - think out, devise, think up
erst - first, at first, just, only
erstrecken - extend, stretch, run, reach
erwähnen - mention, make mention of, refer to
erwähnt - mentioned
Erweis - proof

erweisen - prove, establish, demonstrate
erweitern - widen, extend, broaden (one's knowledge)
erweiterte - extended
erzeugen - produce, make, generate
erzeugend - productive, generative
erzielen - obtain, attain, achieve, reach
es gibt - there is
es gilt - it is true
es moge hinreichen zu - suffice it to say (let it suffice to
say)
es mogen - let...
etwa - around, about, approximately; perhaps, by (any) chance
etwas - something, some, a little, anything, somewhat
eventuell - eventual; possibly

fähig - capable, liable, apt
fähig, ist - is permitted
Fähigkeit - ability, capability
Fall - (in this) case, instance
falls - in (the) case
Faltung - fold, convolution
Faser - fiber
Faserraum - fiber bundle
fassen - grasp, seize, take hold of
fast - almost, about
Fehlen - absence
fehlen - do wrong, fail, be short of; be missing, be absent
fern - far, distant, remote, far off
ferner - further, farther, furthermore, moreover
fest - firm, stable, fixed, stationary
festhalten - hold on to
festsetzen - arrange, settle, establish, fix, stipulate,
prescribe
Festsetzung - requirement, stipulation
feststehen - stand firm or steady, be certain, settled,
established as a fact
feststellen - ascertain
Flache - surface
Folge - consequence
Forderung - claim
Forderung (w/ o umlaut) - encouragement
Form - form, figure, shape

formal - formal
formig - (comb.) -shaped, -formed
Formulierung - formulation, wording, definition
fortsetzen - continue (sp. analytic continuation); see also

setzen

Fortsetzung - continuation (sp. analytic)
fortwährend - lasting, continual; always
Frage - question
fragen - ask
freilich - indeed, certainly
früher - earlier, previous, prior, former
fugen - join; be fitted or proper
führen - lead

gab - is given
ganz - integer; whole; entire (sp. complex functions)
ganzahlige - integral (eg., linear combination),

integer-valued

gar - entirely, absolutely, fully, very, quite
Garbe - sheaf
geben - give
Gebiet - area, region, domain; (sometimes) open connected set
gebildet - educated, cultured, refined, shaped, fashioned
Gebrauch - use
gebrauchen - use, employ
gebrochen - broken, bent, deflected
gebunden - bound, latent, tied up (with), controlled
geeignete - suitable, appropriate, desired, wanted
Gefallen - favor
gefallen - please
gefunden - found (pp of finden)
gegeben - given, state, accepted
gegen - against; wrt. convergence, to (konvergieren gegen)
Gegenbeispiel - counterexample
Gegensatz - converse theorem
Gegensatz, in - in contrast
Gegenstand - object, thing, subject matter
gegenüber - opposite to; with respect to; compared with
gehen - go
gehören - belong (to, with); be proper, be right
gehörig - belonging to
gehört - belonging (to, with); proper

gelangen - attain, reach
 gelegen - located; convenient, opportune
 gelernt - practiced, experienced (at)
 gelochte - punctured
 gelten - hold true
 geltend - effective, applicable, valid
 gemach - slowly, by degrees
 gemachlich - leisurely, comfortably
 gemass - according to
 gemein - common
 gemeinsam - common, mutual, combined
 gemeinschaftlich - common, joint, mutual
 gemischt - mixed, combined, diffused
 Genauigkeit - precision
 genannt - above mentioned, called, surnamed
 genau - exact, accurate, precise, detailed
 genau dann - then and only then (ie, if and only if)
 genugen - be sufficient or enough, suffice; satisfy (a
 condition)
 genugt - suffices (inf. genugen); "es genugt": it suffices
 geordnet - orderly, disciplined, systematic
 gerade - even (numbers); just, right, now
 Gerade - line
 geradlinig - straight-lined, rectilinear, lineal
 gerichtlich - legal, judicial, court
 gern - willingly
 gesamt - whole, entire, complete, common, general
 geschehen - take place, happen, occur
 geschichtlich - historical
 Geschlecht - genus (of a surface)
 geschlossen - closed, enclosed
 geschult - schooled, trained
 gesetzmassig - legal, legitimate
 gesetzt - fixed
 Gestalt - form, figure, shape
 gestatten - permit, allow, grant
 gestern - yesterday
 gesucht - desired, sought after, choice
 getan - no sooner said than done
 getrennt - separated
 gewählt - chosen; selected, choice, select
 Gewicht - weight
 gewinnen - win, obtain, acquire
 gewiss - sure, certain, assured, true, positive

gewisse Seiten - certain sides
 Gewissen - conscience
 gewöhnlich - usual, customary, normal
 gezeichnet - drawn, marked
 gezeigt - shown
 gibt - gives (inf. geben); "es gibt": there is
 gilt - is true (inf. gelten)
 Gitter - lattice
 gitterförmig - lattice-shaped
 Gittermasche - fundamental parallelogram of a lattice
 glatt - smooth, even, glossy, flat
 gleich - equal
 gleichbedeutend - equivalent (to)
 gleichen - equal
 gleichfalls - likewise, as well, too, in the same way
 Gleichheit - equality
 Gleichheitszeichen - equality sign (=)
 gleichmäßig - uniform (continuity); proportional, constant,
 symmetric
 Gleichung - equality
 Glied - term; link
 Grad - degree, order
 greifen - grab, seize; choose
 Grenze - limit
 grenzen - border, adjoin
 Grenzen, über all - over all bounds
 Grenzwert - limit, limiting value
 gross - large
 Grosse - quantity, size
 gründen - establish, found; be based on
 Grundgedanke - basic idea, motivation, fundamental idea
 Grundlage - foundation, basis, groundwork
 grundlegend - basic, fundamental
 Gruppe - group
 Gültigkeit - validity, legality, availability
 Gute - goodness

 haben - have
 haften - cling, adhere, stick
 handeln - act, take action, proceed
 handelt - acts (inf. handeln); "es handelt sich um": it is a
 matter of
 hangen - hang, suspend, attach, fasten, fix

hatten - approach
haufig - frequent
Haufung - accumulation, multiplication, piling up
Haufungspunkt - accumulation point
Haupt - head, chief, principal, main
heben - lift, raise; increase; enhance
heissen - to be called
heisst - "das heisst": that is, in other words, i.e.
heisst - called
herausgreifen - choose, select, pick, single out
hergeleiten - derived, deduced
herleiten - derive, deduce
Herleitung - derivation
herrühren - originate, derive, spring, proceed
herstellbar - producible
herstellen - produce, prepare, make
herum - around, about
hervor - forth, out, out of, from under
hervorgehen - come (from); emerge (from)
heute - today
hierin - herein, in this
hiermit - herewith, (along) with this, saying or doing this
Hilfe - help, aid, support
Hilfesatz - lemma
Hilfsmittel - device, tool, aid
hindurch - through, throughout, during
hinfort - in the future
hinlanglich - sufficient, adequate
hinreichend - sufficient
hinweisen - point to or towards, indicate
hinzu - to, towards, near; in addition, moreover
hinzufügen - append, attach
hoch - high, tall, lofty
höchstens - at the most, not exceeding
Hohe - height, altitude
hohe - high, tall, lofty
Hülle, abgeschlossene - closure

identisch - identical
ihnen - (to) them
im voraus - in advance
immer - always
in Betracht - in consideration of

in der Tat - in fact
indem - while, as; by
Inhalt - area, volume; contents, subject matter
Inhaltsverzeichnis - table of contents
innere - interior, internal, inner
irgend - any
irgendein - someone (or other), anyone

je - ever, at any time; always, at all times
je nachdem - depending on how; as the case may be
jede - every
jedoch - however
jetzt - now, at present
jeweils - at times, from time to time, at any given time;
respectively

kaufen - buy
kein - none, not any
kennen - know, become acquainted with
Kenntnis - knowledge
Kennzeichen - distinguishing mark, criterion, sign,
characteristic
Kern - kernel, core, heart
Kette - chain, range
Kettenkomplex - chain complex
Klammer - clamp, clip
Klammer, eckige - bracket
Klammer, runde - parenthesis
klammern - clamp, clasp
klar - clear, transparent
Klasseneinteilung - classification
klein - little, small, tiny, minute
knupfen - tie, join, attach, fasten
kommen - come, happen
komponieren - compose
kontrahierbar - contractible
konvergieren - converge
kraftig - with force
Kreisring - annulus
Kreisscheibe - closed disk
Kriterium - criterion
Kugel - ball, globe, sphere

Lange - length
langsam - slow
lassen - let; leave, part with
lassen sich - let itself; can be (eg, es lässt sich zeigen =
it can be shown)

lauten - sound; read, say (a word)
lauten (a umlaut) - ring or toll (a bell)
lauter - clear, pure, unmixed
Leben - life, existence
leben - live
lediglich - merely, only
leer - empty, vacant, void
legen - put, place, set
Lehre - theory, teaching, instruction, lesson
Lehrsatz - thesis, proposition, theorem, precept
leicht - light, easy, lightly, easily
leiden - suffer, bear, tolerate
leiten - lead
lenken - guide, direct
letzen - gratify, refresh, comfort
letzt - last, final
licht - light
liefern - supply, provide, yield
liegen - lie, be located or situated
links - left (side)
Lochrand - hole (= Loch) boundary (= rand)
losbar - soluble, solvable, resolvable
losen - settle, resolve, answer
Lösung - solution
Lot - perpendicular (line)

Madchen - girl
mag - wants (inf. mögen)
Mangel - want, need, deficiency, scarcity
Mannigfaltigkeit - manifold
Mass - measure
mehrere - several
mehrfach - repeated, multiple, over and over again
meiden - avoid, shun, flee
meist - most
Menge - set

mindestens - at least, at the very least, not less than
mithin - consequently
mitsamt - together with
Mittel - means, measures, medium, instrument, device, method
mittels - by means of
mittlerer - interior
modificirt - see modifizieren
modifizieren - modify, qualify
mogen - want, wish, desire
Möglichkeit - possibility
muss - see müssen
müssen - must

nach - after, following, behind, to, toward, according to
nach dem - relative to
nachdem - afterwards
nachprüfen - verify
nächst - next, following
nachtraglich - supplementary, subsequent
Nachweis - proof, evidence
nachweisen - prove, establish, authenticate
nahe - near, close, forthcoming
naheliegend - obvious, nearby, near lying
naher - nearer, closer, shorter, more precise, specific,

detailed

nahern - approach, close in (on), bring or place near
Näherung - approximation
namlich - the same; namely, that is to say; of course
neben - beside, in addition to, near
nehmen - take, receive, accept
nehmen, in Anspruch - demand, require, claim
nennen - name, call, designate, term
neu - new
nichtleere - nonempty
nie - never
niedrig - low, humble, base, mean
niemals - never
nirgends - nowhere (at all), not anywhere
noch - still, in addition to, even, nor
nochmal - once more
normieren - standardize, normalize
normieren - standardize, normalize
Normierung - normalizing

notigen - urge, force
notwendig - necessary
Nullpunkt - origin
nullte - 0-th
nun - now
nunmehr - now, at present, by this time, henceforth, then,
since then
nur - only, but
nützlich - useful

ob - over, above, on, upon; if, whether
oben - above, at the top
oben erwähnten - mentioned above, aforesaid
obig - above, above mentioned
obliegen - apply, be devoted to, prevail over, be incumbent

upon
obwohl - though, although
offen - open
offenbar - apparent, obvious
offenbaren - show, disclose
offensichtlich - obviously
oft - often
ohne - without
ohne weiteres - without further ado
ordnen - arrange or order
ort - local

Paar - pair
passend - appropriate, fitting, suited
Pflanze - plant
pflegen - tend, care for; be used to, be in the habit of
Pfund - pound
Potenzmenge - power set
Potenzreihe - power series
Primzahl - prime number
Prinzip - principle
Punkt - point, dot, spot
punktfremde - disjoint

Quadrat - square
quadratisch - square

Quadratwurzel - square root
Quadratzahlen - squares (integers that are squares)
quadrieren - square

Rand - boundary
Randpunkte - boundary point
rasch - rapid
Raum - space (eg, metric, vector, etc.)
Rechenregel - calculation-rule
rechnen - count, calculate, reckon
Rechnung - calculation
rechten Seite - right side
rechtfertigen - justify, vindicate
rechtwinlige - orthogonal (sp. coordinates)
Regel - rule, standard, regulation
Regel, in der - as a rule
rein - clean, neat, tidy, pure
reisen - travel
Rest - remainder (rest, residue, remains, difference)
retten - save, rescue, escape, deliver
richtig - right, correct, true, accurate
Richtung - direction, course, trend
rotieren - revolve, rotate
Rücksicht - respect, regard, consideration, notice
rund - round

sagen - say, tell
samtllich(en) - complete, whole, entire, altogether
Satz - proposition, theorem
Schar - group, bunch, crowd
scheinen - seem, appear, look
schliessen - shut, close, finish, conclude, terminate
schliesslich - last, final, ultimate, eventual; finally, at

last

schliesslich doch - after all, when all is said and done
Schluss - closing, end, termination, conclusion, inference,

deduction, result

schneiden - intersect; cut
schnell - fast
Schnelligkeit - speediness
Schnitt - intersection, cut, incision, slice, cross-section
Schnittpunkte - point of intersection, vertex

`schon` - already
`Schranke` - boundary, bound
`Schranke, obere` - upper bound
`Schranke, untere` - lower bound
`Schritt` - step, measure
`schwer` - heavy, difficult
`schwierig` - difficult, hard, arduous
`sehr` - very
`sein` - to be
`seinerseits` - at one time, formerly, in due course, in its proper

time

`Seite` - side
`Seitensimplexe` - faces (of a simplex)
`selbst` - self-
`Selbstabbildung` - self-mapping
`selbstverständlich` - obvious, self-evident
`selten` - rare
`senkrecht` - perpendicular
`setzen` - set (esp. a value); put or place
`setzen das Verfahren fort` - continue/repeat the procedure
`setzt man` - if one sets
`sich` - oneself, itself
`sind` - are
`Singularitat` - singularity
`Sinn` - sense (in the sense of); faculty, mind
`sinnen` - think, brood, meditate, reflect, ponder, speculate
`Sinnen` - thinking, planning, thoughts, aspirations
`sinnend` - musing, pensive, contemplative
`sinnvoll` - meaningful, sensible
`skizzieren` - sketch
`so` - so, in such a way or manner
`so um wie` - as was done (in)?
`so... wie` - as... as
`sobald` - as soon as
`sofern` - provided, if, inasmuch as, (in) so far as
`sofort` - immediately, right away
`sogar` - even
`sogleich` - immediately, right away
`solcher` - such
`Solide` - solidity
`sollen` - should be, follows from
`somit` - consequently
`sondern` - but
`sondern` - separate, sever, part, sort out, classify

sonst - otherwise, besides, formerly, moreover
soweit - as far as, so far
sowie - just as, as soon as, the moment when, as well as
sowohl...als auch - both...and
Spalten - columns
spalten - split (sp. exact sequences)
sparen - save
spat - late
später - later
späterhin - later on
spätern - future
speziell - specifically
spielen - play
stammen - originate
ständig - permanent, steady, constant
Standpunkt(e) - standpoint, point of view
statt - instead of, in the place of
stattfinden - take place, happen, occur
stehen - be, occur, exist
Stelle - place, spot, position, job, agency
stellen - put, place
stetig - continuous (function); continual, steady
Stetigkeit - continuity
stets - always, regularly, continually, constantly
stillschweigen - be silent, acquiesce in
stillschweigend - still, silent, tacit
stimmen - be true or correct
Stoff - subject, material
Störung - disturbance, trouble, breakdown, interruption
streng - strict, rigorous, severe
suchen - seek, desire, want
suss - sweet

Tat - deed, action, feat, accomplishment
Tatsache - fact
tatsächlich - real, actual, factual, matter of fact
Teil - part
teilbar - divisible, separable
Teilerfolge - partial success
Teilmenge - subset
Teilraum - subspace
ternar - ternary
Tier - animal

tragen - carry
Trager - support (of a function)
Treffen - encounter, meeting
treffen - meet; touch; affect
trennen - separate, divide, part, sever, detach
Trennungseigenschaft - separation property
treten - step, walk, tread, stride
Tritt - step
trotzdem - in spite of, nevertheless, although
tun - do, perform, execute, make, act

Ubelstand(en) - defect, disadvantage, drawback
überall - everywhere, all over
Überraufgaben - practice exercises
überblicken - survey, view, prospect
überdecken - cover (as in open covering)
überdies - besides, moreover, what is more
übereinstimmen - be in agreement, concur
übereinstimmend - agreeing, harmonious, corresponding
überführen - conduct or lead across, transport, transform,

bring over

Übergang - transformation
übergehen - go over, carry over; omit, overlook; run across,

go over

Überlegung - reflection, thought, consideration,
deliberation, investigation

überschneiden - intersect, cross, overlap

übertragbar - transferable

übertragen - carry over

Übertragung - carrying over, assignment, transfer,

translation

überzählig - surplus, spare, left over

üblich - customary, usual, common

übrig - remaining, residual, superfluous

übriglassen - leave over, leave a remainder

Umfang - circumference; range

umfassend - far reaching, sweeping, drastic, complete, full

umformen - reshape, convert

umgeben - surround

Umgebung - neighborhood

umgekehrt - conversely

Umgrenzung - boundary, enclosure, limitation

umkehrbar - invertible

umkehren - invert
Umkehrung - converse
Umstand - circumstance, factor, fact; details
umwandeln - change
unabhängig - independent
unausführbar - impracticable, not feasible, impossible
unbekannt - unknown
unendlich - infinite, endless
ungeändert - unchanged
ungefähr - approximately
ungelöst - unsolved
ungerade - odd (number)
Ungleichheit - inequality
Ungleichung - inequality
unmittelbar - immediate, direct; directly
untergeschieden - subdivided
unterhalb - below
unterliegen - be dominated (as a series); be beaten (by), lose

(to)

unterscheiden - distinguish
Unterschied - difference, distinction
untersuchen - examine, investigate
Untersuchung - investigation, examination, scrutiny
Unterteilung - subdivision
unterwerfen - subdue, subjugate, submit, yield
unveränderlich - constant, unchangeable, invariant
unzerlegbar - indivisible, non-decomposable
Urbild - preimage
Urbild - preimage
Ursprung - origin, source, beginning, cause
ursprünglich - original, primitive, primary, initial
u. s. f. - and so on (und so folgen?)

verallgemeinern - generalize
Verallgemeinerung - generalization
veränderlich - changing, changeable, variable
Veränderlich - variable
verändern - to change
veranschaulichen - make clear, illustrate
verbessern - improve
verbinden - unite, join, combine
Verbindung - binding, joining, connecting, relationship
verbunden - united, joined, combined

Vereinfachung - simplification, reduction
 Vereinigung - union (set-theoretic)
 vereinzeln - isolate
 vereinzelt - sporadic
 verfahren - bungle, err; act, behave, proceed
 Verfahren - procedure, method, process
 Vergleich - comparison
 vergleichen - to compare
 vergrobern - coarsen, make (an estimate) less sharp
 verhalten - hold back, hold, suppress
 Verhältnis - proportion, ratio
 Verhältnisse - circumstances, conditions
 verhandeln - discuss, negotiate, argue
 verkaufen - sell
 verknupfen - tie together, connect, combine, relate
 verknupft - related, associated
 verkörpern - embody, personify
 verlangen - require
 Verlauf - course (in the course of things)
 verletzen - violate
 Verminderung - lessening, diminution, reduction
 vermitteln - mediate, intervene, adjust, arrange, settle
 vermittels - by means of, through
 vermoge - by virtue of
 verneinen - deny, answer in the negative
 versagen - deny, refuse; fail, fail to work
 verschaffen - get, obtain
 verschärfen - sharpen (an inequality); intensify
 verschärfte - sharpened (an inequality); intensified
 verschieben - translate (as an isometry or affine
 transformation)
 verschieden - distinct, different
 verschoben - translated (as an isometry or affine
 transformation)
 verschwinden - vanish, disappear
 versehen - hold (a position), perform (a job)
 versehen mit - provide with
 versehentlich - by mistake, erroneously, inadvertently
 Versharpfung - sharpening (of an estimate)
 verständlich - understandable
 verstehen - understand, see, make out, realize
 Versuch - attempt, test, try, trial
 versuchen - try, tempt, taste
 vertauschbar - interchangeable; (algebra) commutable

vertauschen (gegen) - exchange (for), interchange
Vertauschung - exchange, substitution
vertrauten - familiar
verwandeln - change or transform (into)
verweisen - refer (to); banish, expel
verwenden - use, employ, apply (to)
Verwendung - application, use, employment
Verwirklichung - realization
Verzeichnis - index (of a book); list, catalogue
vgl. - compare (vergleichen)
viel - much, many
Vielfaches - multiple
vielmehr - rather, on the contrary
viertens - fourthly, in the fourth place
vollenden - bring to a close; finish, terminate, achieve
vollig - full, total, entire, complete
vollkommen - perfect, consummate, complete
vollständig - complete (sp. metric spaces), total, integral
vollziehen - effect, carry out; take place
Vollziehung - execution, discharge, accomplishment,

fulfilment

von - from, off of, of, by, at
vorangehend - preceding, foregoing
voraus - in front, ahead (of)
vorausgesetzt - assumed
voraussetzen - suppose, assume
Voraussetzung - assumption, supposition, (induction)

hypothesis

Vorbehalt - reservation, proviso
Vorbemerkung - preliminary remark, preamble
vorbereitend - preparatory
Vorbereitung - preparation, introductory material
Vorgabe - points, handicap
vorhanden - present, at hand, available, existing
vorigen - former, preceding, previous
vorkommen - happen, take place, be found
vorläufig - for the present, for the time being, preliminary,

tentative

Vorlesung - lecture, reading, recital
vorliegen - be under consideration, be present or there, exist
vorliegend - present, existing, at issue, in hand or in

question

vornehmen - take up, undertake
vornherein - from the first

vorstehenden - preceding?
vorweg - before, beforehand, to begin with
Vorzeichen - sign (of a number)
Vorzug - preference, advantage, superiority, priority,
excellence

waagrecht - horizontal
Wachsen - growth, development, increase, expansion
wachsen - increase
wachsend - growing, increasing
wachst - grown, increased
Wahl - choice, option, selection
wählen - choose
während - during, while, whereas
Wahrheit - truth, reality, fact
waren - would be, would have
Wechsel - change, shift
weder - neither
weder...noch - neither...nor
wegen - because of, on account of
wegfallen - be omitted or suppressed, become void, come to

nothing

weggeben - give away, dispose of
weghaben - have received, got the knack of
weglassen - leave out, omit, let go
weil - because
Weise - manner, way, method, mode
weiss - white
weit - far, distant, extensive, wide, broad
weiten - widen, broaden
weiter - further, farther, additional
weiterhin - furthermore, again
welcher - which
wenden - turn, turn over, turn up, change
Wendung - turn; change
wenig - little, few
weniger - less, minus
wenigstens - at least, at all events
werden - become
Wert - value, price, worth
Wesen - essence, substance, entity
wesentlich(e) - essential, fundamental, substantial
wichtiges - weighty, important, essential

Widerspruch - contradiction (fuhren zu Widerspruch = leads to
a c.)

wie - as, like, such as
wieder - again, afresh, once more
wiederentdecken - rediscover
wiederholen - repeat
widerum - again; on the other hand
wiegen - weigh
willkürlich - arbitrary, random
Winkel - angle
wird - becomes (pres. of werden)
wirklich - actual, real, substantial
Wirklichkeit - (actual) fact, reality
wissen - know
Wissenschaft - knowledge
wobei - whereby, whereat, in the course of which
wodurch - by or through which, whereby ... How? By what means?
wofern - provided that, so far as, in case
wohin - where (to)
wohl - probably
wohlbekannt - well known, familiar
wollen - wish, desire
worauf - on which, upon or after which, whereupon
woraus - from which
Wort - word
wortlich - word-for-word, verbatim
worüber - upon, over, or about which
wünschen - wish, desire, want, request
wurde - could, (could) become (pret. of werden)
Würfel - cube

z. B. - for example (zum Beispiele)

Zahl - number

Zeichen - symbol

zeigen - show, display, exhibit

Zeile - row

zerfallen - can be separated; disconnect; fall apart,

decompose

zerfallen sein mit - to be at variance with

zerlegen - resolve, cut up, decompose

Zerlegung - partition, decomposition; dismantling,

dissection

Zerlegung der Einheit - parition of unity

zerspalten - split
zerstörbar - destroyable
zerstören - destroy, demolish, ruin
zerstreuten - scattered
zgl. - resp. (zugleich)
ziehen - extract; pull, pull out
Ziel - aim, mark, goal
ziemlich oft - not often
Ziffer - digit, numeral
zitieren - quote
zudem - moreover, besides
zuerst - first
zufolge - in consequence of, as a result of
zuganglich - accessible
zugehörig - belonging to
zugelassen - allowed, admitted
zugleich - at the same time
zugleich mit - together with
zulassen - allow, admit
zulässig - permissible
zunächst - for the time being, in the first place
zuordnen - adjoin, coordinate, associate
zurechnen - add, number, reckon
Zurechnung - addition, inclusion, attribution
zurück - back, backwards, behind, points down
zurückkehren - return (to)
zusammenfallen mit - coincide with
zusammenfassen - condense, summarize, combine, unite
Zusammenhang - connectedness (topological); connection
Zustand - state, condition
zustreben - strive for
zuweilen - sometimes
zwar - indeed, certainly
Zweck - aim, purpose, objective
zwischen - between, betwixt, among