International Baccalaureate · IB Diploma · Mathematics: Applications and Interpretation · HL

Glossary · every term in the course, A–Z

English

acceleration
/əkˌseləˈreɪʃn/

adjacency matrix

alternative hypothesis
/ɔːlˈtɜːnətɪv haɪˈpɒθəsɪs/

amortised

amplitude
/ˈæmplɪtjuːd/

angle of depression
/ˈæŋgl ɒv dɪˈpreʃn/

angle of elevation
/ˈæŋgl ɒv ˌelɪˈveɪʃn/

annuity
/əˈnjuːɪti/

arc
/ɑːk/

Argand diagram
/ˈɑːgænd ˈdaɪəgræm/

argument
/ˈɑːgjuːmənt/

arithmetic sequence
/əˈrɪθmətɪk ˈsiːkwəns/

assumption
/əˈsʌmpʃn/

asymptote
/ˈæsɪmptəʊt/

axis of symmetry
/ˈæksɪs ɒv ˈsɪmətri/

bearing
/ˈbeərɪŋ/

box plot
/bɒks plɒt/

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English

carrying capacity
/ˈkæriɪŋ kəˈpæsɪti/
cell
/sel/
central limit theorem
/ˈsentrəl ˈlɪmɪt ˈθɪərəm/
chain rule
/tʃeɪn ruːl/
characteristic polynomial

chi-squared test
/kaɪ skweəd test/
Chinese postman problem

coefficient of determination
/ˌkəʊɪˈfɪʃənt ɒv dɪˌtɜːmɪˈneɪʃn/
common difference
/ˈkɒmən ˈdɪfrəns/
common ratio
/ˈkɒmən ˈreɪʃiəʊ/
complete graph

complex conjugate
/ˈkɒmpleks ˈkɒndʒuːgeɪt/
complex number
/ˈkɒmpleks ˈnʌmbə/
composite function
/ˈkɒmpəzɪt ˈfʌŋkʃn/
compound interest
/ˈkɒmpaʊnd ˈɪntrest/
conditional probability
/kənˈdɪʃənl ˌprɒbəˈbɪlɪti/
cone
/kəʊn/
confidence interval
/ˈkɒnfɪdəns ˈɪntəvl/
connected
/kəˈnektɪd/
constant of integration
/ˈkɒnstənt ɒv ˌɪntɪˈgreɪʃn/

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English

contingency table
/kən'tɪndʒənsi 'teɪbl/
continuous data

cosine rule
/'kəʊsaɪn ru:l/
coupled system

critical region
/'krɪtɪkl 'ri:dʒn/
critical value
/'krɪtɪkl 'vælju:/
cumulative frequency
/'kju:mjʊlətɪv 'fri:kwənsi/
decreasing
/'di:kri:sɪŋ/
definite integral
/'defɪnət 'ɪntɪgrəl/
degree
/dɪ'gri:/
degrees of freedom
/dɪ'gri:z ɒv 'fri:dəm/
deposit
/dɪ'pɒzɪt/
depreciation
/dɪˌpri:ʃɪ'eɪʃn/
derivative
/dɪ'rɪvətɪv/
determinant
/dɪ'tɜ:mɪnənt/
differential equation
/ˌdɪfə'renʃl ɪ'kweɪʒn/
directed graph

directly proportional
/daɪ'rektli prə'pɔ:ʃənl/
discrete data

discrete random variable
/dɪ'skri:t 'rændəm 'veərɪəbl/
displacement
/dɪ'spleɪsmənt/

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English

domain
/dəˈmeɪn/
edge
/edʒ/
eigenvalue
/ˈaɪgənvæljuː/
eigenvector
/ˈaɪgənvektə/
enlargement
/enˈlɑːdʒmənt/
equilibrium point

Euler's method
/ˈɔɪlər ˈmeθəd/
Eulerian circuit

Eulerian trail

expected value
/ekˈspektɪd ˈvælju:/
exponential model
/ˌekspəˈnenʃl ˈmɒdl/
extrapolation
/ekˈstræpəleɪʃn/
frequency density
/ˈfri:kwənsi ˈdensɪti/
function
/ˈfʌŋkʃn/
geometric sequence
/ˌdʒi:əʊˈmetrɪk ˈsi:kwəns/
goodness of fit test

gradient
/ˈgreɪdɪənt/
graph
/græf/
half-life
/hɑ:f laɪf/
Hamiltonian cycle

hemisphere
/ˈhemɪsfɪə/

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English

hypotenuse
/haɪˈpɒtənjuːs/
identity matrix
/aɪˈdentɪti ˈmeɪtrɪks/
increasing
/ɪnˈkriːsɪŋ/
independent
/ˌɪndɪˈpendənt/
inflation
/ɪnˈfleɪʃn/
initial condition
/ɪˈnɪʃl kənˈdɪʃn/
integration
/ˌɪntɪˈgreɪʃn/
integration by parts
/ˌɪntɪˈgreɪʃn baɪ pɑːts/
internal assessment

interpolation
/ɪnˌtɜːpəˈleɪʃn/
interquartile range
/ˌɪntəˈkwɔːtaɪl reɪndʒ/
inverse function
/ɪnˈvɜːs ˈfʌŋkʃn/
inverse matrix
/ɪnˈvɜːs ˈmeɪtrɪks/
inversely proportional
/ɪnˈvɜːsli prəˈpɔːʃənl/
iteration
/ˌɪtəˈreɪʃn/
Kruskal's algorithm
/ˈkrʌskl ˈælgərɪθəm/
linear model
/ˈlɪnɪə ˈmɒdl/
local maximum
/ˈləʊkl ˈmæksɪməm/
local minimum
/ˈləʊkl ˈmɪnɪməm/
log-log graph

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English

logarithm
/ˈlɒgərɪθəm/
logistic model
/ləˈdʒɪstɪk ˈmɒdl/
lower bound
/ˈləʊə baʊnd/
magnitude
/ˈmægnɪtjuːd/
Markov chain

mathematical communication

mathematical exploration

matrix
/ˈmeɪtrɪks/
mean
/miːn/
median
/ˈmiːdiːən/
midpoint
/ˈmɪdpɔɪnt/
minimum spanning tree
/ˈmɪnɪməm ˈspænɪŋ triː/
mode
/məʊd/
model
/ˈmɒdl/
moderation

modulus
/ˈmɒdjʊləs/
multiplier
/ˌmʌltɪˈplaɪə/
mutually exclusive
/ˈmjuːtʃuːəli eksˈkluːsɪv/
natural logarithm
/ˈnætʃərəl ˈlɒgərɪθəm/
nearest neighbour interpolation

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English

normal

/ˈnɔːml/

normal distribution

/ˈnɔːml ˌdɪstrɪˈbjuːʃn/

null hypothesis

/nʌl haɪˈpɒθəsɪs/

one-tailed

/wʌn teɪld/

outlier

/ˈaʊtlaɪə/

parallel

/ˈpærəlel/

period

/ˈpɪərɪəd/

perpendicular

/ˌpɜːpənˈdɪkjʊlə/

perpendicular bisector

/ˌpɜːpənˈdɪkjʊlə baɪˈsektə/

personal engagement

phase portrait

point of inflection

/pɔɪnt ɒv ɪnˈflekʃn/

Poisson distribution

/ˈpɔɪsn ˌdɪstrɪˈbjuːʃn/

population

/ˌpɒpjʊˈleɪʃn/

position vector

/pəˈzɪʃn ˈvektə/

presentation

/ˌprezənˈteɪʃn/

Prim's algorithm

/prɪmz ˈælgərɪθəm/

primary data

/ˈpraɪməri ˈdeɪtə/

prime factor

/praɪm ˈfæktə/

principal axis

/ˈprɪnsɪpl ˈæksɪs/

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English

probability
/ˌprɒbəˈbɪlɪti/
product rule
/ˈprɒdʌkt ruːl/
pyramid
/ˈpɪrəmɪd/
quadratic model
/kwɒˈdrætɪk ˈmɒdl/
quartile
/ˈkwɔːtaɪl/
quotient rule
/ˈkwəʊʃənt ruːl/
radian
/ˈreɪdɪən/
range
/reɪndʒ/
reflection
/rɪˈflekʃn/
reflection
/rɪˈflekʃn/
regression line
/rɪˈgreʃn laɪn/
reliable
/rɪˈlaɪəbl/
research question
/rɪˈsɜːtʃ ˈkwestʃn/
residual
/rɪˈsɪdʒuːəl/
resultant
/rɪˈzʌltənt/
rotation
/rəʊˈteɪʃn/
saddle point

sample
/ˈsæmpl/
sample space
/ˈsæmpl speɪs/
scalar product
/ˈskeɪlə ˈprɒdʌkt/

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English

scale factor
/skeɪl 'fæktə/
scatter diagram
/'skætə 'daɪəgræm/
secant
/'si:kənt/
second derivative
/'sekənd dɪ'rɪvətɪv/
secondary data

sector
/'sektə/
semi-log graph

separation of variables
/ˌsepə'reɪʃn ɒv 'veərɪəblz/
sequence
/'si:kwəns/
series
/'sɪəri:z/
significance level
/sɪg'nɪfɪkəns 'levl/
significant figure
/sɪg'nɪfɪkənt 'fɪgə/
sine rule
/saɪn ru:l/
sinusoidal model
/ˌsaɪnə'sɔɪdl 'mɒdl/
site
/saɪt/
slant height
/slænt haɪt/
slope field
/sləʊp fi:ld/
space diagonal
/speɪs daɪ'ægənl/
spanning tree

Spearman's rank
correlation coefficient
/'spɪəmənz ræŋk ˌkɒrɪ'leɪʃn ˌkəʊɪ'fɪʃənt/

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English

sphere
/sfɪə/
standard deviation
/ˈstændəd ˌdiːvɪˈeɪʃn/
standard form
/ˈstændəd fɔːm/
stationary point
/ˈsteɪʃənəri pɔɪnt/
steady state
/ˈstedi steɪt/
stretch
/stretʃ/
tangent
/ˈtændʒənt/
transformation matrix
/trænsfɔːˈmeɪʃn ˈmeɪtrɪks/
transition matrix
/trænˈsɪʃn ˈmeɪtrɪks/
travelling salesman problem
tree
/triː/
tree diagram
/triː ˈdaɪəgræm/
two-tailed
/tuː teɪld/
type I error
/taɪp aɪ ˈerə/
type II error
/taɪp ˈtuː ˈerə/
unbiased estimate
unit circle
/ˈjuːnɪt ˈsɜːkl/
unit vector
/ˈjuːnɪt ˈvektə/
upper bound
/ˈʌpə baʊnd/
use of mathematics

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English

valid

vector
/ˈvektə/
vector equation of a line

vector product
/ˈvektə ˈprɒdʌkt/
velocity
/vəˈlɒsɪti/
velocity vector

vertex
/ˈvɜːteks/
volume of revolution
/ˈvɒljuːm ɒv ˌrevəˈluːʃn/
Voronoi diagram

weighted graph
/ˈweɪtɪd ɡræf/
zero
/ˈzɪərəʊ/

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