International Baccalaureate · IB Diploma · Mathematics: Analysis and Approaches · HL

Glossary · every term in the course, A–Z

English

amplitude
/ˈæmplɪtjuːd/

angle of depression
/ˈæŋgl ɒv dɪˈpreʃn/

angle of elevation
/ˈæŋgl ɒv ˌelɪˈveɪʃn/

antiderivative
/ˌæntɪdɪˈrɪvətɪv/

Argand diagram
/ˈɑːgænd ˈdaɪəgræm/

argument
/ˈɑːgjuːmənt/

arithmetic sequence
/əˈrɪθmətɪk ˈsiːkwəns/

assumption
/əˈsʌmpʃn/

asymptote
/ˈæsɪmptəʊt/

Bayes' theorem

bearing
/ˈbeərɪŋ/

binomial coefficient
/baɪˈnəʊmɪəl ˌkəʊɪˈfɪʃənt/

binomial theorem
/baɪˈnəʊmɪəl ˈθɪərəm/

box plot
/bɒks plɒt/

chain rule
/tʃeɪn ruːl/

change of base

combination
/ˌkɒmbɪˈneɪʃn/

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English

common difference
/ˈkɒmən ˈdɪfrəns/
common ratio
/ˈkɒmən ˈreɪʃɪəʊ/
complex conjugate
/ˈkɒmpleks ˈkɒndʒuːgeɪt/
complex number
/ˈkɒmpleks ˈnʌmbə/
composite function
/ˈkɒmpəzɪt ˈfʌŋkʃn/
compound interest
/ˈkɒmpaʊnd ˈɪntrest/
conditional probability
/kənˈdɪʃənl ˌprɒbəˈbɪlɪti/
cone
/kəʊn/
continuous data

continuous random variable
/kənˈtɪnjuːəs ˈrændəm ˈveərɪəbl/
converge
/kənˈvɜːdʒ/
correlation coefficient
/ˌkɒrɪˈleɪʃn ˌkəʊɪˈfɪʃənt/
cosine rule
/ˈkəʊsaɪn ruːl/
counterexample
/ˈkaʊntəregzæmpl/
cumulative frequency
/ˈkjuːmjʊlətɪv ˈfriːkwənsi/
de Moivre's theorem
/də ˈmɔɪvəz ˈθɪərəm/
definite integral
/ˈdefɪnət ˈɪntɪgrəl/
depreciation
/dɪˌpriːʃɪˈeɪʃn/
derivative
/dɪˈrɪvətɪv/
differential equation
/ˌdɪfəˈrenʃl ɪˈkweɪʒn/

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English

direction vector
/daɪˈrekʃn ˈvektə/
discrete data

discrete random variable
/dɪˈskriːt ˈrændəm ˈveərɪəbl/
discriminant
/dɪˈskrɪmɪnənt/
displacement
/dɪˈspleɪsmənt/
domain
/dəˈmeɪn/
double angle identity

Euler's method
/ˈɔɪlə ˈmeθəd/
even function
/ˈiːvən ˈfʌŋkʃən/
expected value
/ekˈspektɪd ˈvæljuː/
exponent
/ekˈspəʊnənt/
exponential function
/ˌekspəˈnenʃl ˈfʌŋkʃn/
extrapolation
/ekˈstræpəleɪʃn/
factor theorem
/ˈfæktə ˈθɪərəm/
first principle

frequency density
/ˈfriːkwənsi ˈdensɪti/
function
/ˈfʌŋkʃn/
geometric sequence
/ˌdʒiːəʊˈmetrɪk ˈsiːkwəns/
gradient
/ˈgreɪdɪənt/
half-life
/hɑːf laɪf/
hemisphere
/ˈhemɪsfɪə/

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English

hypotenuse
/haɪˈpɒtənjuːs/
identity
/aɪˈdentɪti/
implicit differentiation
/ɪmˈplɪsɪt ˌdɪfəˌrenʃɪˈeɪʃn/
indefinite integral
/ɪnˈdefɪnət ˈɪntɪgrəl/
independent
/ˌɪndɪˈpendənt/
index
/ˈɪndeks/
initial condition
/ɪˈnɪʃl kənˈdɪʃn/
integrating factor
/ˈɪntɪgreɪtɪŋ ˈfæktə/
integration
/ˌɪntɪˈgreɪʃn/
integration by parts
/ˌɪntɪˈgreɪʃn baɪ pɑːts/
internal assessment

interpolation
/ɪnˌtɜːpəˈleɪʃn/
interquartile range
/ˌɪntəˈkwɔːtaɪl reɪndʒ/
inverse function
/ɪnˈvɜːs ˈfʌŋkʃn/
logarithm
/ˈlɒgərɪθəm/
Maclaurin series
/məˈklɔːrɪn ˈsɪəriːz/
magnitude
/ˈmægnɪtjuːd/
mathematical communication

mathematical exploration

mean
/miːn/

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English

median
/ˈmiːdiːən/
midpoint
/ˈmɪdpɔɪnt/
mode
/məʊd/
moderation

modulus
/ˈmɒdjʊləs/
multiplier
/ˌmʌltɪˈplaɪə/
mutually exclusive
/ˈmjuːtʃuːəli eksˈkluːsɪv/
natural logarithm
/ˈnætʃərəl ˈlɒgərɪθəm/
normal
/ˈnɔːml/
normal distribution
/ˈnɔːml ˌdɪstrɪˈbjuːʃn/
normal vector
/ˈnɔːml ˈvektə/
odd function
/ɒd ˈfʌŋkʃən/
outlier
/ˈaʊtlaɪə/
partial fraction
/ˈpɑːʃl ˈfrækʃn/
Pascal's triangle

period
/ˈpɪərɪəd/
permutation
/ˌpɜːmjuːˈteɪʃn/
personal engagement

point of inflection
/pɔɪnt ɒv ɪnˈflekʃn/
polynomial
/ˌpɒlɪˈnəʊmɪəl/
population
/ˌpɒpjʊˈleɪʃn/

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English

position vector
/pəˈzɪʃn ˈvektə/
presentation
/ˌprezənˈteɪʃn/
prime factor
/praɪm ˈfæktə/
principal axis
/ˈprɪnsɪpl ˈæksɪs/
principal value
/ˈprɪnsɪpl ˈvæljuː/
probability
/ˌprɒbəˈbɪlɪti/
probability density function
/ˌprɒbəˈbɪlɪti ˈdensɪti ˈfʌŋkʃn/
product rule
/ˈprɒdʌkt ruːl/
proof
/pruːf/
proof by contradiction
/pruːf baɪ ˌkɒntrəˈdɪkʃn/
proof by induction

proposal
/prəˈpəʊzl/
pyramid
/ˈpɪrəmɪd/
quadratic function
/kwɒˈdrætɪk ˈfʌŋkʃn/
quartile
/ˈkwɔːtaɪl/
quotient rule
/ˈkwəʊʃənt ruːl/
radian
/ˈreɪdɪən/
range
/reɪndʒ/
reflection
/rɪˈflekʃn/
regression line
/rɪˈgreʃn laɪn/

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English

related rate
/rɪˈleɪtɪd reɪt/
remainder theorem
/rɪˈmeɪndə ˈθɪərəm/
research question
/rɪˈsɜːtʃ ˈkwestʃn/
residual
/rɪˈsɪdʒuːəl/
resultant
/rɪˈzʌltənt/
sample
/ˈsæmpl/
sample space
/ˈsæmpl speɪs/
scalar
/ˈskeɪlə/
scalar product
/ˈskeɪlə ˈprɒdʌkt/
scale factor
/skeɪl ˈfæktə/
scatter diagram
/ˈskætə ˈdaɪəgræm/
secant
/ˈsiːkənt/
second derivative
/ˈsekənd dɪˈrɪvətɪv/
sector
/ˈsektə/
segment
/ˈsegmənt/
separation of variable

sequence
/ˈsiːkwəns/
series
/ˈsɪəriːz/
sigma notation
/ˈsɪgmə nəʊˈteɪʃn/
sine rule
/saɪn ruːl/

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English

skew
/skjuː/
slant height
/slænt haɪt/
space diagonal
/speɪs daɪˈægənl/
sphere
/sfɪə/
standard deviation
/ˈstændəd ˌdiːvɪˈeɪʃn/
standard form
/ˈstændəd fɔːm/
standardised value

stationary point
/ˈsteɪʃənəri pɔɪnt/
tangent
/ˈtændʒənt/
Taylor polynomial
/ˈteɪlə ˌpɒlɪˈnəʊmɪəl/
tree diagram
/triː ˈdaɪəgræm/
unit circle
/ˈjuːnɪt ˈsɜːkl/
unit vector
/ˈjuːnɪt ˈvektə/
use of mathematics

variance
/ˈveərɪəns/
vector
/ˈvektə/
vector product
/ˈvektə ˈprɒdʌkt/
velocity
/vəˈlɒsɪti/
vertex
/ˈvɜːteks/
volume of revolution
/ˈvɒljuːm ɒv ˌrevəˈluːʃn/

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