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/

English

common difference
/ˈkɒmən ˈdɪfrəns/
common ratio
/ˈkɒmən ˈreɪʃiəʊ/
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/

English

direction vector
/daɪ'rekʃn 'vektə/
discrete data

discrete random variable
/dɪ'skri:t 'rændəm 'veərɪəbl/
discriminant
/dɪ'skrɪmɪnənt/
displacement
/dɪ'spleɪsmənt/
domain
/də'meɪn/
double angle identity

Euler's method
/'ɔɪlə 'meθəd/
even function
/'i:vən 'fʌŋkʃən/
expected value
/ek'spektɪd 'vælju:/
exponent
/ek'spəʊnənt/
exponential function
/ˌekspə'nenʃl 'fʌŋkʃn/
extrapolation
/ek'stræpəleɪʃn/
factor theorem
/'fæktə 'θɪərəm/
first principle

frequency density
/'fri:kwənsi 'densɪti/
function
/'fʌŋkʃn/
geometric sequence
/ˌdʒi:əʊ'metrɪk 'si:kwəns/
gradient
/'greɪdɪənt/
half-life
/ha:f laɪf/
hemisphere
/'hemɪsfɪə/

English

hypotenuse
/haɪ'pɒtənju:s/
identity
/aɪ'dentɪti/
implicit differentiation
/ɪm'plɪsɪt ˌdɪfəˌrenʃɪ'eɪʃn/
indefinite integral
/ɪn'defɪnət 'ɪntɪgrəl/
independent
/ˌɪndɪ'pendənt/
index
/'ɪndeks/
initial condition
/ɪ'nɪʃl kən'dɪʃn/
integrating factor
/'ɪntɪgreɪtɪŋ 'fæktə/
integration
/ˌɪntɪ'greɪʃn/
integration by parts
/ˌɪntɪ'greɪʃn baɪ pɑ:ts/
internal assessment

interpolation
/ɪnˌtɜ:pə'leɪʃn/
interquartile range
/ˌɪntə'kwɔ:taɪl reɪndʒ/
inverse function
/ɪn'vɜ:s 'fʌŋkʃn/
logarithm
/'lɒgərɪθəm/
Maclaurin series
/mə'klɔ:rɪn 'sɪəri:z/
magnitude
/'mægnɪtju:d/
mathematical communication

mathematical exploration

mean
/mi:n/

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/

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/

English

related rate
/rɪ'leɪtɪd reɪt/
remainder theorem
/rɪ'meɪndə 'θɪərəm/
research question
/rɪ'sɜːtʃ 'kwestʃn/
residual
/rɪ'sɪdʒuːəl/
resultant
/rɪ'zʌltənt/
sample
/'sæmpl/
sample space
/'sæmpl speɪs/
scalar
/'skeɪlə/
scalar product
/'skeɪlə 'prɒdʌkt/
scale factor
/skeɪl 'fæktə/
scatter diagram
/'skætə 'daɪəgræm/
secant
/'siːkənt/
second derivative
/'sekənd dɪ'rɪvətɪv/
sector
/'sektə/
segment
/'segmənt/
separation of variable

sequence
/'siːkwəns/
series
/'sɪəriːz/
sigma notation
/'sɪgmə nəʊ'teɪʃn/
sine rule
/saɪn ruːl/

English

skew
/skjuː/
slant height
/slænt haɪt/
space diagonal
/speɪs daɪ'ægənl/
sphere
/sfɪə/
standard deviation
/'stændəd ˌdiːvɪ'eɪʃn/
standard form
/'stændəd fɔːm/
standardised value

stationary point
/'steɪʃənəri pɔɪnt/
tangent
/'tændʒənt/
Taylor polynomial
/'teɪlə ˌpɒlɪ'nəʊmɪəl/
tree diagram
/triː 'daɪəgræm/
unit circle
/'juːnɪt 'sɜːkl/
unit vector
/'juːnɪt 'vektə/
use of mathematics

variance
/'veərɪəns/
vector
/'vektə/
vector product
/'vektə 'prɒdʌkt/
velocity
/və'lɒsɪti/
vertex
/'vɜːteks/
volume of revolution
/'vɒljuːm ɒv ˌrevə'luːʃn/