

Pearson Edexcel · International A-Level · Pure Mathematics

Glossary · every term in the course, A–Z

English

algebraic division

ambiguous case

/æm'biɡju:əs keɪs/

arc length

/ɑ:k leŋθ/

area scale factor

/'eəriə skeɪl 'fæktə/

area under the curve

Argand diagram

/'ɑ:gænd 'daɪəɡræm/

argument

/'ɑ:gju:mənt/

arithmetic sequences

asymptote

/'æsimptəʊt/

auxiliary equation

/ɔ:k'sɪlɪəri i'kweɪʒn/

binomial expansion

/baɪ'nəʊmɪəl ek'spænfən/

calculator

cardioid

/'kɑ:diəʊɪd/

Cartesian

/kɑ:'ti:ziən/

catenary

/kæ'ti:nəri/

chain rule

/tʃeɪn ru:l/

chord

/kɔ:d/

combined transformations

English

complementary function

/ˌkɒmplɪ'mentəri ˈfʌŋkʃn/

completing the square

/kəm'pli:tɪŋ ðə skweə/

complex number

/'kɒmpleks ˈnʌmbə/

composition

/ˌkɒmpə'zɪʃn/

compound angle

/'kɒmpaʊnd ˈæŋɡl/

conjugate

/'kɒndʒu:ɡeɪt/

Connected rates of change

constant of integration

/'kɒnstənt ɒv ˌɪntɪ'ɡreɪʃn/

cosine rule

/'kəʊsaɪn ru:l/

cubic

/'kju:bɪk/

de Moivre's theorem

/də ˈmɔɪvəz ˈθɪərəm/

Decompose

decreasing

/'di:kri:ɪŋ/

definite integral

/'defɪnət ˈɪntɪɡrəl/

derivative

/dɪ'rɪvətɪv/

diagonalise

directrix

discriminant

/dɪ'skrɪmɪnənt/

disproof by counterexample

domain

/də'meɪn/

double angle

/'dʌbl ˈæŋɡl/

English

eccentricity

eigenvalue

/ˈaɪdʒənˈvæljuː/

eigenvector

/ˈaɪdʒənˈvektə/

ellipse

/ɪˈlɪps/

Euler's relation

factor theorem

/ˈfæktə ˈθɪərəm/

fixed point

focus

/ˈfəʊkəs/

function

/ˈfʌŋkʃn/

geometric sequences

gradient of the tangent

/ˈɡreɪdɪənt ɒv ðə ˈtæŋdʒənt/

harmonic form

hyperbola

/haɪˈpɜːbələ/

hyperbolic functions

/ˌhaɪpəˈbɒlɪk ˈfʌŋkʃnz/

imaginary part

/ɪˈmædʒɪnəri pɑːt/

implicit differentiation

/ɪmˈplɪsɪt ˌdɪfəˈrenʃiˈeɪʃn/

Improper fractions

increasing

/ɪnˈkriːsɪŋ/

induction

/ɪnˈdʌkʃn/

inequality

/ɪniːˈkwɒlɪti/

initial line

English

initial value

/ɪˈnɪʃl ˈvæljuː/

integrating factor

/ˈɪntɪɡreɪtɪŋ ˈfæktə/

integration

/ˌɪntɪˈɡreɪʃn/

Integration by parts

/ˌɪntɪˈɡreɪʃn baɪ pɑːts/

interval bisection

inverse function

/ɪnˈvɜːs ˈfʌŋkʃn/

irrational

/ɪˈræʃənl/

iteration

/ˌɪtəˈreɪʃn/

laws of indices

/lɔːz ɒv ˈɪndɪsiːz/

laws of logarithms

/lɔːz ɒv ˈlɒɡərɪθəmz/

lemniscate

linear interpolation

locus

/ˈləʊkəs/

log plot

logarithm

/ˈlɒɡərɪθəm/

long-run floor

Maclaurin series

/məˈkloːrɪn ˈsɪəriːz/

magnitude

/ˈmæɡnɪtjuːd/

maximum

/ˈmæksɪməm/

method of differences

/ˈmeθəd ɒv ˈdɪfrənsɪz/

minimum

/ˈmɪnɪməm/

English

Möbius transformation

model

/ˈmɒdl/

modulus (absolute value)

modulus (complex/vector)

Newton–Raphson method

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parabola

/pəˈræbələ/

parallel

/ˈpærəlel/

parametric equations

/ˌpærəˈmetrɪk ɪˈkweɪʒnz/

partial fractions

/ˈpɑːʃl ˈfrækʃnz/

particular integral

/pəˈtɪkjələ ˈɪntɪgrəl/

particular solution

/pəˈtɪkjələ səˈluːʃn/

periodic

/ˌpɪərɪˈɒdɪk/

perpendicular

/ˌpɜːpənˈdɪkjələ/

perpendicular bisector

/ˌpɜːpənˈdɪkjələ baɪˈsektə/

polar coordinates

/ˈpəʊlə kəʊˈɔːdɪneɪts/

position vector

/pəˈzɪʃn ˈvektə/

product rule

/ˈprɒdʌkt ruːl/

proof

/pruːf/

proof by contradiction

/pruːf baɪ ˌkɒntrəˈdɪkʃn/

proof by exhaustion

/pruːf baɪ egˈzɔːstʃn/

quadratic function

/kwɒˈdrætɪk ˈfʌŋkʃn/

English

quotient

/ˈkwəʃənt/

quotient rule

/ˈkwəʃənt ru:l/

radian

/ˈreɪdiən/

range

/reɪndʒ/

rate of change

/reɪt ɒv tʃeɪndʒ/

rational

/ˈræʃənəl/

rational expression

/ˈræʃənəl ek'spreʃn/

rationalise the denominator

/ˈræʃənəlaɪz ðə di'nɒmɪneɪtə/

real part

/rɪəl pɑ:t/

reciprocal function

reciprocal functions

/rɪ'sɪprəkl 'fʌŋkʃnz/

recognition forms

rectangular hyperbola

reduction formula

/rɪ'dʌkʃn 'fɔ:mjələ/

remainder theorem

/rɪ'meɪndə 'θɪərəm/

repeated factor

/rɪ'pi:tɪd 'fæktə/

restricted domain

scalar product

/ˈskeɪlə 'prɒdʌkt/

scalar triple product

second derivative

/ˈsekənd di'rɪvətɪv/

sector area

/ˈsektə 'eəriə/

English

separable

/ˈsepərəbl/

sequence

/ˈsiːkwəns/

sign change

/saɪn tʃeɪndʒ/

simultaneous equations

/ˌsɪməˈteɪniəs ɪˈkweɪʒnz/

sine rule

/saɪn ruːl/

singular

/ˈsɪŋɡjʊlə/

skew lines

/skjuː laɪnz/

stationary points

/ˈsteɪʃənəri poɪnts/

substitution

/ˌsʌbstɪˈtjuːʃn/

surd

/sɜːd/

surface of revolution

tangent

/ˈtæŋdʒənt/

Taylor series

/ˈteɪlə ˈsɪəriːz/

transformation

/trænsfɔːˈmeɪʃn/

trapezium rule

/trəˈpiːziəm ruːl/

trigonometric equations

trigonometric identities

/ˌtrɪɡənəʊˈmetrɪk aɪˈdentɪtɪz/

unit vector

/ˈjuːnɪt ˈvektə/

vector

/ˈvektə/

vector product

/ˈvektə ˈprɒdʌkt/

English

volume of revolution

/ˈvɒljʊ:m ɒv ˌrevəˈluːʃn/
