

Pearson Edexcel · International A-Level · Further Mathematics

Glossary · every term in the course, A–Z

English

activity-on-arc network

amplitude

/ˈæmplɪtjuːd/

angular speed

/ˈæŋɡjʊlə spiːd/

arc length

/ɑːk leŋθ/

area scale factor

/ˈeəriə skeɪl ˈfæktə/

Argand diagram

/ˈɑːɡænd ˈdaɪəɡræm/

argument

/ˈɑːɡjuːmənt/

asymptote

/ˈæsɪmptəʊt/

auxiliary equation

/ɔːkˈsɪliəri ɪˈkweɪʒn/

bearing

/ˈbeərɪŋ/

bias

/ˈbaɪəs/

bin packing

binomial distribution

/baɪˈnəʊmiəl ˌdɪstrɪˈbjʊːʃn/

box plot

/bɒks plɒt/

bubble sort

/ˈbʌbl sɔːt/

cardioid

/ˈkɑːdɪɔɪd/

catenary

/kæˈtiːnəri/

census

/ˈsensəs/

English

Central Limit Theorem

/ˈsentrəl ˈlɪmɪt ˈθiərəm/

centre of mass

/ˈsentə ɒv mæs/

centripetal acceleration

/senˈtrɪpɪtl əkˌseləˈreɪʃn/

classical travelling salesman
problem

coefficient of friction

/ˌkəʊˈfɪʃənt ɒv ˈfrɪkʃn/

coefficient of restitution

/ˌkəʊˈfɪʃənt ɒv rɪstɪˈtjuːʃn/

complementary function

/ˌkɒmplɪˈmentəri ˈfʌŋkʃn/

complex number

/ˈkɒmpleks ˈnʌmbə/

composite body

conditional probability

/kənˈdɪʃənl ˌprɒbəˈbɪlɪti/

confidence interval

/ˈkɒnfɪdəns ˈɪntəvl/

conical pendulum

/ˈkɒnɪkl ˈpendjʊləm/

conjugate

/ˈkɒndʒuːgeɪt/

conservation of mechanical
energy

contingency table

/kənˈtɪndʒənsi ˈteɪbl/

continuity correction

/kɒntɪˈnjuːɪti kəˈrekʃn/

continuous uniform distribu-
tion

correlation coefficient

/ˌkɒrɪˈleɪʃn ˌkəʊˈfɪʃənt/

critical path

/ˈkrɪtɪkl pæθ/

critical region

English

critical value

/ˈkrɪtɪkl 'væljuː/

cumulative distribution
function

/'kjuːmjələtɪv ,dɪstrɪ'bjuːʃn 'fʌŋkʃn/

de Moivre's theorem

/də 'mɔɪvəz 'θiərəm/

degrees of freedom

/di'ɡriːz ɒv 'friːdəm/

diagonalise

Dijkstra's algorithm

directrix

discrete random variable

/di'skriːt 'rændəm 'veəriəbl/

dummy

earliest event times

eccentricity

eigenvalue

/'aɪdʒənˈvæljuː/

eigenvector

/'aɪdʒənˈvektə/

elastic energy

ellipse

/ɪˈlɪps/

equilibrium

/iːkwɪˈlɪbrɪəm/

Euler's relation

expectation

/ekspɪk'teɪʃn/

expected frequency

/ek'spektɪd 'friːkwənsi/

focus

/'fəʊkəs/

friction

/'frɪkʃn/

English

Gantt chart

goodness of fit

/ˈɡʊdnəs ɒv fɪt/

hemisphere

/ˈhemɪsfɪə/

histogram

/ˈhɪstəɡræm/

Hooke's law

/hʊks lɔː/

hyperbola

/haɪˈpɜːbələ/

hyperbolic functions

/ˌhaɪpəˈbɒlɪk ˈfʌŋkʃnz/

hypothesis test

/haɪˈpɒθəsis test/

imaginary part

/ɪˈmædʒɪnəri pɑːt/

impulse

/ˈɪmpʌls/

independence

/ˌɪndɪˈpendəns/

Induction

/ɪnˈdʌkʃn/

inextensible string

initial line

integrating factor

/ˈɪntɪɡreɪtɪŋ ˈfæktə/

integration

/ˌɪntɪˈɡreɪʃn/

interquartile range

/ˌɪntəˈkwɔːtaɪl reɪndʒ/

interval bisection

kinetic energy

/kɪˈnetɪk ˈenədʒi/

Kruskal's algorithm

lamina

/ˈləmɪnə/

English

latest event times

lemniscate

limiting equilibrium

/ˈlɪmɪtɪŋ ˌiːkwɪˈlɪbrɪəm/

linear interpolation

locus

/ˈləʊkəs/

Maclaurin series

/məˈklɔːrɪn ˈsɪəriːz/

median

/ˈmiːdiːən/

method of differences

/ˈmeθəd ɒv ˈdɪfrənsɪz/

minimum spanning tree

/ˈmɪnɪməm ˈspænɪŋ triː/

Möbius transformation

mode

/məʊd/

modulus

/ˈmɒdjʊləs/

modulus of elasticity

/ˈmɒdjʊləs ɒv ɪləˈstɪsɪti/

moment

/ˈməʊmənt/

moment of a force

/ˈməʊmənt əvə fɔːs/

natural length

/ˈnætʃərəl leŋθ/

nearest neighbour algorithm

Newton–Raphson method

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Normal distribution

/ˈnɔːml ˌdɪstrɪˈbjʊːʃn/

normal reaction

/ˈnɔːml rɪˈækʃn/

null hypothesis

/nʌl haɪˈpɒθəsis/

English

outlier

/ˈaʊtlaɪə/

parabola

/pəˈræbələ/

partial fractions

/ˈpɑːʃl ˈfrækʃnz/

particle

/ˈpɑːtɪkl/

particular integral

/pəˈtɪkjələ ˈɪntɪgrəl/

period

/ˈpɪəriəd/

perpendicular bisector

/ˌpɜːpənˈdɪkjələ baɪˈsektə/

Poisson distribution

/ˈpɔɪsn ˌdɪstrɪˈbjʊːʃn/

polar coordinates

/ˈpəʊlə kəʊˈɔːdɪnəts/

positively skewed

potential energy

/pəˈtenʃl ˈenədʒi/

power

/ˈpaʊə/

Prim's algorithm

probability density function

/ˌprɒbəˈbɪlɪti ˈdensɪti ˈfʌŋkʃn/

probability function

projectile

/prəˈdʒektail/

pulley

/ˈpʊli/

quick sort

quota sampling

/ˈkwəʊtə ˈsæmplɪŋ/

real part

/rɪəl pɑːt/

rectangular hyperbola

English

reduction formula

/rɪ'dʌkʃn 'fɔ:mjələ/

regression line

/rɪ'ɡreʃn laɪn/

resultant

/rɪ'zʌltənt/

rigid body

/'rɪdʒɪd 'bɒdi/

rod

rough surface

route inspection (Chinese
postman) problem

ruler method

sample

/'sæmpl/

sample space

/'sæmpl speɪs/

sampling distribution

/'sæmplɪŋ ,dɪstrɪ'bju:ʃn/

sampling frame

/'sæmplɪŋ freɪm/

scalar triple product

significance level

/sɪɡ'nɪfɪkəns 'levl/

simple harmonic motion

/'sɪmpl hɑ:'mɒnɪk 'məʊʃn/

simple random sample

/'sɪmpl 'rændəm 'sæmpl/

singular

/'sɪŋɡjʊlə/

skew lines

/skju: laɪnz/

smooth surface

solid of revolution

/'sɒlɪd ɒv ,revə'lʊ:ʃn/

Spearman's rank correlation
coefficient

English

standard deviation

/ˈstændəd ,di:vɪ'eɪʃn/

standard error

/ˈstændəd 'erə/

statistic

/stə'tɪstɪk/

stem and leaf

stratified sampling

/ˈstrætɪfaɪd 'sæmplɪŋ/

surface of revolution

systematic sampling

Taylor series

/ˈteɪlə 'sɪəri:z/

tension

/ˈtenʃn/

total float

/ˈtəʊtl fləʊt/

trajectory

/trə'dʒektəri/

unbiased

/ʌnˈbaɪəst/

variance

/ˈveəriəns/

vector product

/ˈvektə 'prɒdʌkt/

vertex method

vertical circle

/ˈvɜ:tɪkl 'sɜ:kl/

wire framework

work done

/wɜ:k dʌn/

work-energy principle
