

GAC Mathematics

Glossary · · every term in the course, A–Z

English	Pinyin
 algorithm <i>/ˈælgərɪθəm/</i>	suàn fǎ
 Angles of elevation and depression <i>/ˈæŋɡlɪz ɒv ˌelɪˈveɪʃn ænd dɪˈpreʃn/</i>	yǎng jiǎo yǔ fǔ jiǎo
 annuity <i>/əˈnjuːti/</i>	nián jīn
 APR <i>/ˌeɪ piː ˈɑː/</i>	nián lì lǚ
 Area <i>/ˈeəriə/</i>	miàn jī
 Area between two curves <i>/ˈeəriə bɪˈtwiːn tuː kɜːvz/</i>	liǎng qū xiàn jiān miàn jī
 arithmetic sequence <i>/əˈrɪθmətɪk ˈsiːkwəns/</i>	děng chā shù liè
 bearing <i>/ˈbeərɪŋ/</i>	fāng wèi jiǎo
 Bias <i>/ˈbaɪəs/</i>	piān chā
 binary <i>/ˈbaɪnəri/</i>	èr jìn zhì
 Binary arithmetic <i>/ˈbaɪnəri əˈrɪθmətɪk/</i>	èr jìn zhì yùn suàn
 bit <i>/bɪt/</i>	wèi
 Boolean algebra <i>/ˈbuːliən ˈældʒɪbrə/</i>	bù ěr dài shù
 box plot <i>/bɒks plɒt/</i>	xiāng xiàn tú
 byte <i>/baɪt/</i>	zì jié
 chain rule <i>/tʃeɪn ruːl/</i>	liàn shì fǎ zé
 coefficient <i>/ˌkəʊˈfɪʃənt/</i>	xì shù

English	Pinyin
 combination <i>/ˌkɒmbɪˈneɪʃn/</i>	zǔ hé
 command word <i>/kəˈmænd wɜːd/</i>	zhǐ lìng cí
— common difference <i>/'kɒmən ˈdɪfrəns/</i>	gōng chāi
 common ratio <i>/'kɒmən ˈreɪʃiəʊ/</i>	gōng bǐ
 complement <i>/'kɒmplɪmənt/</i>	duì lì shì jiàn
 Compound interest <i>/'kɒmpaʊnd ˈɪntrest/</i>	fù lì
 Congruent <i>/'kɒŋgruːənt/</i>	quán děng
 constant <i>/'kɒnstənt/</i>	cháng shù
+ constant of integration <i>/'kɒnstənt ɒv ˌɪntɪˈɡreɪʃn/</i>	jī fēn cháng shù
 continuous <i>/kənˈtɪnjuːəs/</i>	lián xù
 cosine rule <i>/'kəʊsaɪn ruːl/</i>	yú xián dīng lǐ
 Counting techniques <i>/'kaʊntɪŋ tekˈniːks/</i>	jì shù fāng fǎ
 coursework <i>/'kɔːsjuːzːk/</i>	píng shí zuò yè
• Decimal <i>/'desɪml/</i>	shí jìn zhì
 deductions <i>/dɪˈdʌkʃnz/</i>	kòu chū xiàng
 definite integral <i>/'defɪnət ˈɪntɪgrəl/</i>	dīng jī fēn
<> degree <i>/dɪˈɡriː/</i>	dù
↘ Depreciation <i>/dɪˌpriːʃiˈeɪʃn/</i>	zhé jiù
 derivative <i>/dɪˈrɪvətɪv/</i>	dǎo shù
 differentiation <i>/ˌdɪfəˈrenʃiˈeɪʃn/</i>	wēi fēn

English	Pinyin
 differentiation from first principles <i>/ˌdɪfəˈrenʃi'eɪʃn frəm fɜːst 'prɪnsɪplz/</i>	cóng dìng yì qiú dǎo
 discount <i>/'dɪskaʊnt/</i>	zhé kòu
 discrete <i>/dɪ'skri:t/</i>	lí sàn
 distance <i>/'dɪstəns/</i>	jù lí
 edges <i>/'edʒɪz/</i>	biān
 Efficiency <i>/ɪ'fɪjənsi/</i>	xiào lǜ
 equation <i>/'kweɪʒn/</i>	fāng chéng
 examination <i>/egˌzæmɪ'neɪʃn/</i>	kǎo shì
 expand <i>/ek'spænd/</i>	zhǎn kāi
 exponent <i>/ek'spəʊnənt/</i>	zhǐ shù
 Exponential decay <i>/ˌeksˈpəˈnenʃl dɪ'keɪ/</i>	zhǐ shù shuāi jiǎn
 exponential function <i>/ˌeksˈpəˈnenʃl 'fʌŋkʃn/</i>	zhǐ shù hán shù
 expression <i>/ek'spreʃn/</i>	biǎo dá shì
 factor <i>/'fæktə/</i>	yīn shù
 factorise <i>/'fæktəraɪz/</i>	yīn shì fēn jiě
 flowchart <i>/'fləʊtʃɑ:t/</i>	liú chéng tú
 function <i>/'fʌŋkʃn/</i>	hán shù
 fundamental theorem of calculus <i>/ˌfʌndə'mentl 'θɪərəm ɒv 'kælkjʊləs/</i>	wēi jī fēn jī běn dìng lǐ
 geometric sequence <i>/ˌdʒɪːəv'metrɪk 'siːkwəns/</i>	děng bǐ shù liè

English	Pinyin
 gradient <i>/ˈɡreɪdɪənt/</i>	xié lǚ
 gradient of the tangent <i>/ˈɡreɪdɪənt ɒv ðə ˈtændʒənt/</i>	qiè xiàn xié lǚ
 graph <i>/ɡræf/</i>	tú
 graphically <i>/ˈɡræfɪkli/</i>	yòng tú xiàng qiú jiě
 Gross pay <i>/ɡrəʊs peɪ/</i>	shuì qián gōng zī
 hexadecimal <i>/ˌheksəˈdesɪml/</i>	shí liù jìn zhì
 highest common factor (HCF) <i>/ˈhaɪst ˈkɒmən ˈfæktə/</i>	zuì dà gōng yīn shù
 hypotenuse <i>/haɪˈpɒtənjuːs/</i>	xié biān
 identity <i>/aɪˈdentɪti/</i>	héng děng shì
 in-class test <i>/ɪn klæs test/</i>	kè táng cè yàn
 inclusion-exclusion principle <i>/ɪnˈkluːʒn eksˈkluːʒn ˈprɪnsɪpl/</i>	róng chì yuán lǐ
 indefinite integral <i>/ɪnˈdefɪnət ˈɪntɪɡrəl/</i>	bù dìng jī fēn
 independent <i>/ˌɪndɪˈpendənt/</i>	dú lì
 inequality <i>/ɪniːˈkwɒlɪti/</i>	bù děng shì
 integer <i>/ˈɪntɪdʒə/</i>	zhěng shù
 integration <i>/ˌɪntɪˈɡreɪʃn/</i>	jī fēn
 Integration by substitution <i>/ˌɪntɪˈɡreɪʃn baɪ ˌsəbstɪˈtjuːʃn/</i>	huàn yuán jī fēn fǎ
 interquartile range (IQR) <i>/ˌɪntəˈkwɔːtaɪl reɪndʒ/</i>	sì fēn wèi jù

English	Pinyin
 intersection <i>/ˌɪntə'sekʃn/</i>	jiāo jí
π irrational number <i>/ˈɪræʃənəl 'nʌmbə/</i>	wú lǐ shù
 linear equation <i>/ˈlɪniəl ɪ'kweɪʒn/</i>	yī yuán yī cì fāng chéng
 loan repayment <i>/ləʊn rɪ'peɪmənt/</i>	dài kuǎn hái kuǎn
$\sqrt{\quad}$ logarithm <i>/ˈlɒɡərɪθəm/</i>	duì shù
 logic circuit <i>/ˈlɒdʒɪk 'sɜːkɪt/</i>	luó jí diàn lù
 Logic gates <i>/ˈlɒdʒɪk geɪts/</i>	luó jí mén
 lowest common multiple (LCM) <i>/ˈləʊst 'kɒmən 'mʌltɪpl/</i>	zuì xiǎo gōng bèi shù
 Marginal cost and revenue <i>/ˈmɑːdʒɪnəl kɒst ænd 'revənjuː/</i>	biān jì chéng běn yǔ biān jì shōu yì
$\uparrow$ maximum <i>/ˈmæksɪmə/</i>	jí dà zhí
$\equiv$ mean <i>/miːn/</i>	píng jūn shù
$\langle \rangle$ median <i>/ˈmiːdiən/</i>	zhōng wèi shù
• midpoint <i>/ˈmɪdpoɪnt/</i>	zhōng diǎn
$\downarrow$ minimum <i>/ˈmɪnɪmə/</i>	jí xiǎo zhí
 mode <i>/məʊd/</i>	zhòng shù
 multiple <i>/ˈmʌltɪpl/</i>	bèi shù
 mutually exclusive <i>/ˈmjuːtʃuːəli eks'kluːsɪv/</i>	hù chì
 Natural logarithms <i>/ˈnætʃərəl 'lɒɡərɪθəmz/</i>	zì rán duì shù
 net pay <i>/net peɪ/</i>	shuì hòu gōng zī

English	Pinyin
 normal distribution <i>/ˈnɔːml ˌdɪstrɪˈbjʊːʃn/</i>	zhèng tài fēn bù
 number base <i>/ˈnʌmbə beɪs/</i>	jìn zhì
 Optimisation <i>/ˌɒptɪmaɪˈzeɪʃn/</i>	zuì yōu huà
 order of operations <i>/ˈɔːdə ɒv ˌɒpəˈreɪʃnz/</i>	yùn suàn shùn xù
 parabola <i>/pəˈræbələ/</i>	pāo wù xiàn
 parallel <i>/ˈpærəlel/</i>	píng xíng
 percentage <i>/pəˈsentɪdʒ/</i>	bǎi fēn bǐ
 periodic <i>/ˌpiəriˈɒdɪk/</i>	zhōu qī de
 permutation <i>/ˌpɜːmjʊːˈteɪʃn/</i>	pái liè
 perpendicular <i>/ˌpɜːpənˈdɪkjələ/</i>	chuí zhí
 place value <i>/pleɪs ˈvæljuː/</i>	wèi zhí
 polygon <i>/ˈpɒlɪɡən/</i>	duō biān xíng
 population <i>/ˌpɒpjʊˈleɪʃn/</i>	zǒng tǐ
 power rule <i>/ˈpaʊə ruːl/</i>	mì fǎ zé
 present value <i>/ˈprezənt ˈvæljuː/</i>	xiàn zhí
 prime number <i>/praɪm ˈnʌmbə/</i>	zhì shù
 Probability <i>/ˌprɒbəˈbɪlɪti/</i>	gài lǚ
 product rule <i>/ˈprɒdʌkt ruːl/</i>	chéng jī fǎ zé
 projects <i>/ˈprɒdʒekts/</i>	xiàng mù
 Pseudocode <i>/ˈsuːdəʊkəʊd/</i>	wěi dài mǎ

English	Pinyin
 Pythagoras' theorem <i>/paɪ'θæɡərəs 'θiərəm/</i>	gōu gǔ dìng lǐ
 quadratic equation <i>/kwɒ'drætik i'kweɪzn/</i>	yī yuán èr cì fāng chéng
 Qualitative data <i>/'kwɒlɪteɪv 'deɪtə/</i>	dìng xìng shù jù
 quantitative data <i>/'kwɒntɪteɪv 'deɪtə/</i>	dìng liàng shù jù
$\div$ quotient rule <i>/'kwɒʃənt ru:l/</i>	shāng fǎ zé
 radians <i>/'reɪdɪənz/</i>	hú dù
$\leftrightarrow$ range <i>/reɪndʒ/</i>	quán jù
 Rates of change <i>/reɪts ɒv tʃeɪndʒ/</i>	biàn huà lǜ
$\div$ rational number <i>/'ræʃənl 'nʌmbə/</i>	yǒu lǐ shù
$\mapsto$ relation <i>/rɪ'leɪʃn/</i>	guān xì
 representative <i>/'reprɪ'zentətɪv/</i>	yǒu dài biǎo xìng de
 reverses <i>/rɪ'vɜ:sɪz/</i>	fǎn xiàng
 roots <i>/ru:ts/</i>	gēn
 sample <i>/'sæmpl/</i>	yàng běn
$\curvearrowright$ second derivative <i>/'sekənd dɪ'rɪvətɪv/</i>	èr jiē dǎo shù
$\vdots$ sequence <i>/'si:kwəns/</i>	shù liè
Σ series <i>/'sɪəri:z/</i>	jí shù
 set <i>/set/</i>	jí hé
$\otimes$ set complement <i>/set 'kɒmplɪmənt/</i>	bǔ jí
 shortest path <i>/'ʃɔ:tɪst pæθ/</i>	zuì duǎn lù jìng

English	Pinyin
 Significant figures <i>/sɪɡ'nɪfɪkənt 'fɪɡəz/</i>	yǒu xiào shù zì
 similar <i>/'sɪmɪlə/</i>	xiāng sì
 Simple interest <i>/'sɪmpl 'ɪntrest/</i>	dān lì
 Simultaneous equations <i>/,sɪmə'l'teɪniəs ɪ'kweɪzɪnz/</i>	lián lì fāng chéng
 sine rule <i>/saɪn ru:l/</i>	zhèng xián dīng lǐ
 standard deviation <i>/'stændəd ,di:vɪ'eɪʃn/</i>	biāo zhǔn chà
 Standard form <i>/'stændəd fɔ:m/</i>	kē xué jì shù fǎ
 Stationary points <i>/'steɪʃənəri pɔɪnts/</i>	zhù diǎn
 subset <i>/'sʌbset/</i>	zì jí
 sum to infinity <i>/sʌm tu ɪn'fɪnɪti/</i>	wú qióng hé
 terminology logbook <i>/,tɜ:mɪ'nɒlədʒɪ 'lɒgbʊk/</i>	shù yǔ jì lù běn
 terms <i>/tɜ:mz/</i>	xiàng
 test <i>/test/</i>	cè yàn
 Tracing <i>/'treɪsɪŋ/</i>	zhuī zōng
 tree <i>/tri:/</i>	shù
 truth table <i>/tru:θ 'teɪbl/</i>	zhēn zhí biǎo
 Union <i>/'ju:nɪən/</i>	bìng jí
 unit circle <i>/'ju:nɪt 'sɜ:kl/</i>	dān wèi yuán
 Venn diagram <i>/ven 'daɪəgræm/</i>	wéi ēn tú
 vertex <i>/'vɜ:teks/</i>	dǐng diǎn

English	Pinyin
 volume <i>/ˈvɒljʊːm/</i>	tǐ jī
 y-intercept <i>/waɪ ˌɪntəˈsept/</i>	y y zhóu jié jù
 z-score <i>/zed skɔː/</i>	biāo zhǔn fēn