

AP Calculus BC

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

English	Pinyin
absolute difference	jué duì chà
absolute maximum	jué duì jí dà zhí
absolute minimum	jué duì jí xiǎo zhí
absolute value <i>/ˈæbsəluːt ˈvæljuː/</i>	jué duì zhí
absolutely convergent	jué duì shōu liǎn
 acceleration <i>/əkˌsələˈreɪʃn/</i>	jiā sù dù
acceleration vector	jiā sù dù xiàng liàng
 accumulation <i>/əˌkjuːmjəˈleɪʃn/</i>	lěi jī
 accumulation function <i>/əˌkjuːmjəˈleɪʃn ˈfʌŋkʃn/</i>	lěi jī hán shù
acres per week	yīng mǔ měi zhōu
additivity	kě jiā xìng
alternate limit definition	huàn yuán jí xiàn dìng yì
 alternating series <i>/ˈɔːltəneɪtɪŋ ˈsɪəriːz/</i>	jiāo cuò jí shù
 alternating series error bound <i>/ˈɔːltəneɪtɪŋ ˈsɪəriːz ˈerə baʊnd/</i>	jiāo cuò jí shù wù chā jiè
alternating series test	jiāo cuò jí shù pàn bié fǎ
 analytically <i>/ˌænəˈlɪtɪkli/</i>	jiě xī dì
 antiderivative <i>/ˌæntɪdɪˈrɪvətɪv/</i>	yuán hán shù
 antidifferentiation <i>/ˌæntɪˌdɪfəˈrenʃiˈeɪʃn/</i>	qiú yuán hán shù
approach	qū jìn

English	Pinyin
approximate <i>/əˈprɒksɪmət/</i>	jìn sì
 arbitrarily <i>/ˌɑːbɪˈtrɛrɪli/</i>	rèn yì dì
 arc length <i>/ɑːk lɛŋθ/</i>	hú zhǎng
arctangent	fǎn zhèng qiè
 area <i>/ˈeəriə/</i>	miàn jī
 at a single instant <i>/ætə ˈsɪŋɡl ˈɪnstənt/</i>	shùn jiān
 at rest <i>/æt rest/</i>	jìng zhǐ
 average rate of change <i>/ˈævərɪdʒ reɪt ɒv tʃeɪndʒ/</i>	píng jūn biàn huà lǚ
— average value <i>/ˈævərɪdʒ ˈvæljuː/</i>	píng jūn zhí
axis of revolution	xuán zhuàn zhóu
 behavior <i>/bɪˈheɪvjə/</i>	xíng tài
benchmark	jī zhǔn
calculus <i>/ˈkælkjələs/</i>	wēi jī fēn
candidates	hòu xuǎn diǎn
 Candidates Test <i>/ˈkændɪdeɪts test/</i>	hòu xuǎn diǎn pàn bié fǎ
 carrying capacity <i>/ˈkæərɪŋ kəˈpæsɪti/</i>	huán jìng róng nà liàng
 Cartesian <i>/kaːˈtiːziən/</i>	zhí jiǎo zuò biāo
 chain rule <i>/tʃeɪn ruːl/</i>	liàn shì fǎ zé
 change <i>/tʃeɪndʒ/</i>	biàn huà
 closed circle <i>/kləʊzd ˈsɜːkl/</i>	shí xīn yuán
closed interval	bì qū jiān

English	Pinyin
common factor /ˈkɒmən ˈfæktə/	gōng yīn shì
÷ common ratio /ˈkɒmən ˈreɪʃjəʊ/	gōng bǐ
complete the square /kəmˈpli:t ðə skweə/	pèi fāng fǎ
component /kəmˈpəʊnənt/	fèn liàng
Composite /ˈkɒmpəzɪt/	fù hé hán shù
Composite function /ˈkɒmpəzɪt ˈfʌŋkʃn/	fù hé hán shù
compositions	fù hé
concave down /kɒnˈkeɪv daʊn/	tū
concave up /kɒnˈkeɪv ʌp/	āo
concavity /kənˈkævɪti/	āo tū xìng
conditionally convergent	tiáo jiàn shōu liǎn
conditions	tiáo jiàn
conjugate /ˈkɒndʒuːgeɪt/	gòng è shì
consistent /kənˈsɪstənt/	yí zhì
* constant multiple /ˈkɒnstənt ˈmʌltɪpl/	cháng shù bèi
constant multiple rule	cháng shù bèi fǎ zé
+ constant of integration /ˈkɒnstənt ɒv ˌɪntɪˈɡreɪʃn/	jī fēn cháng shù
constant rule	cháng shù fǎ zé
constant vector	cháng xiàng liàng
constrained growth	shòu xiàn zēng zhǎng
constraint /kənˈstreɪnt/	yuē shù tiáo jiàn

English	Pinyin
context /ˈkɒntekst/	qíng jìng
— continuous /kənˈtɪnjuːəs/	lián xù
continuous on an interval /kənˈtɪnjuːəs ɒn ən ˈɪntəvl/	zài qū jiān shàng lián xù
converge /kənˈvɜːdʒ/	shōu liǎn
convergent /kənˈvɜːdʒənt/	shōu liǎn
converges absolutely /kənˈvɜːdʒɪz ˌæbsəˈluːtli/	jué duì shōu liǎn
converges conditionally /kənˈvɜːdʒɪz kənˈdɪʃənəli/	tiáo jiàn shōu liǎn
corner /ˈkɔːnə/	jiān jiǎo
counterexample	fǎn lì
critical point /ˈkrɪtɪkl pɔɪnt/	lín jiè diǎn
cross section /krɒs ˈsekʃn/	héng jié miàn
cuspid /kʌsp/	jiān diǎn
decreasing /ˈdiːkriːsɪŋ/	dì jiǎn
[] definite integral /ˈdefɪnət ˈɪntɪgrəl/	dìng jī fēn
degree /dɪˈɡriː/	cì shù
denominator /dɪˈnɒmɪneɪtə/	fēn mǔ
dependent variable /dɪˈpendənt ˈveəriəbl/	yīn biàn liàng
derivative /dɪˈrɪvətɪv/	dǎo shù
derivative notation	dǎo shù jì hào
difference quotient /ˈdɪfrəns ˈkwɒʃənt/	chà shāng

English	Pinyin
difference rule	chà fǎ zé
 differentiable <i>/ˈdɪfərənʃiəbl/</i>	kě wēi
differentiable functions	kě wēi hán shù
 differential equation <i>/ˌdɪfə'renʃl ɪ'kweɪʒn/</i>	wēi fēn fāng chéng
 Direct comparison <i>/daɪ'rekt kəm'pærɪsn/</i>	zhí jiē bǐ jiào
direct comparison test	zhí jiē bǐ jiào pàn bié fǎ
 direct substitution <i>/daɪ'rekt ˌsʌbstɪ'tju:ʃn/</i>	zhí jiē dài rù
direction <i>/daɪ'rekʃn/</i>	fāng xiàng
 disc method <i>/disk 'meθəd/</i>	yuán pán fǎ
 discontinuity <i>/diskɒntɪ'nju:ɪti/</i>	jiàn duàn diǎn
 discontinuous <i>/diskən'tɪnju:əs/</i>	bù lián xù
→ displacement <i>/dɪ'spleɪsmənt/</i>	wèi yí
distance traveled	lù chéng
diverge <i>/daɪ'vɜ:dʒ/</i>	fā sàn
divergent <i>/daɪ'vɜ:dʒənt/</i>	fā sàn
DNE	bù cún zài
does not exist	bù cún zài
domain <i>/də'meɪn/</i>	dìng yì yù
 dominant <i>/ˈdɒmɪnənt/</i>	zhǔ dǎo
 economics <i>/ˌi:kə'nɒmɪks/</i>	jīng jì xué
 elementary derivatives <i>/ˌeli'mentəri dɪ'rɪvətɪvz/</i>	jī běn dǎo shù

English	Pinyin
» end behavior <i>/end bɪ'heɪvjə/</i>	mò duān xíng wéi
end-behavior	mò duān xíng tài
endpoint	duān diǎn
equation <i>/ɪ'kweɪʒn/</i>	fāng chéng
equilibrium <i>/ˌi:kwi'libriəm/</i>	píng héng
= equivalent form <i>/ɪ'kwɪvələnt fɔ:m/</i>	děng jià xíng shì
error <i>/'erə/</i>	wù chā
 estimate <i>/'estɪmət/</i>	gū jì zhí
 Euler's method <i>/'ɔɪləz 'meθəd/</i>	ōu lā fǎ
 existence theorem <i>/eg'zɪstəns 'θɪərəm/</i>	cún zài xìng dìng lǐ
exists	cún zài
x^2 exponential <i>/ˌekspə'nenʃl/</i>	zhǐ shù
 exponential decay <i>/ˌekspə'nenʃl dɪ'keɪ/</i>	zhǐ shù shuāi jiǎn
 exponential growth <i>/ˌekspə'nenʃl grəʊθ/</i>	zhǐ shù zēng zhǎng
 exponential growth or decay <i>/ˌekspə'nenʃl grəʊθ ɔ: dɪ'keɪ/</i>	zhǐ shù zēng zhǎng
 exponential model <i>/ˌekspə'nenʃl 'mɒdl/</i>	zhǐ shù mó xíng
extended function	yán tuò hán shù
 Extreme Value Theorem <i>/ek'stri:m 'vælju: 'θɪərəm/</i>	jí zhí dìng lǐ
extremum	jí zhí
✕ Factor and cancel <i>/'fæktə ænd 'kænsəl/</i>	yīn shì fēn jiě bìng yuē fēn

English	Pinyin
factorial <i>/fæk'tɔ:riəl/</i>	jiē chéng
filled dot	shí xīn diǎn
final value	zuì zhōng zhí
 First Derivative Test <i>/fɜ:st di'rivativ test/</i>	yī jiē dǎo shù pàn bié fǎ
 first principles <i>/fɜ:st 'prinsiplz/</i>	yòng dīng yì qiú dǎo
flow <i>/fləʊ/</i>	liú liàng
function value	hán shù zhí
 Fundamental Theorem of Calculus <i>/fʌndə'mentl 'θiərəm ɒv 'kælkjʊləs/</i>	wēi jī fēn jī běn dīng lǐ
 Fundamental Theorem of Calculus (FTC) <i>/fʌndə'mentl 'θiərəm ɒv 'kælkjʊləs/</i>	wēi jī fēn jī běn dīng lǐ
general solution <i>/'dʒenərəl sə'lu:ʃn/</i>	tōng jiě
 geometric series <i>/,dʒi:əʊ'metrik 'siəri:z/</i>	jǐ hé jí shù
geometrically	jǐ hé dì
global extremum	zhěng tǐ jí zhí
global maximum	zhěng tǐ jí dà zhí
global minimum	zhěng tǐ jí xiǎo zhí
 graph <i>/græf/</i>	tú xiàng
 graphically <i>/'græfikli/</i>	yòng tú xiàng
graphing calculator	tú xíng jì suàn qì
half-life <i>/hɑ:f laɪf/</i>	bàn shuāi qī
 harmonic series <i>/hɑ:'mɒnik 'siəri:z/</i>	tiáo hé jí shù

English	Pinyin
 higher-order derivatives <i>/'haɪə 'ɔ:də di'rivativz/</i>	gāo jiē dǎo shù
 hole <i>/həʊl/</i>	dòng
 horizontal asymptote <i>/,hɒrɪ'zɒntl 'æsɪmptəʊt/</i>	shuǐ píng jiàn jìn xiàn
horizontal slices	shuǐ píng qiē piàn
horizontal tangent	shuǐ píng qiè xiàn
hypothesis <i>/haɪ'pəθəsis/</i>	qián tí
 implicit differentiation <i>/ɪm'plɪsɪt ,dɪfə'renʃi'eɪʃn/</i>	yǐn hán shù qiú dǎo
implicit relation	yǐn shì guān xì
implicitly defined <i>/ɪm'plɪsɪtli dɪ'faɪnd/</i>	yǐn shì dīng yì
 improper integral <i>/ɪm'prɒpə 'ɪntɪgrəl/</i>	fǎn cháng jī fēn
 inconclusive <i>/ɪŋkən'klu:sɪv/</i>	wú fǎ pàn dīng
 increasing <i>/ɪn'kri:sɪŋ/</i>	dì zēng
 indefinite integral <i>/ɪn'defɪnət 'ɪntɪgrəl/</i>	bù dīng jī fēn
independent variable <i>/,ɪndɪ'pendənt 'veəriəbl/</i>	zì biàn liàng
 indeterminate form <i>/,ɪndɪ'tɜ:mɪnət fɔ:m/</i>	bù dīng xíng
 infinite discontinuity <i>/'ɪnfɪnət dɪskɒntɪ'nju:ti/</i>	wú qióng jiàn duàn diǎn
 infinite limit <i>/'ɪnfɪnət 'lɪmɪt/</i>	wú qióng jí xiàn
infinite sequence	wú qióng shù liè
 infinite series <i>/'ɪnfɪnət 'siəri:z/</i>	wú qióng jí shù
 initial condition <i>/ɪ'nɪʃl kən'dɪʃn/</i>	chū shǐ tiáo jiàn
initial value <i>/ɪ'nɪʃl 'vælju:/</i>	chū shǐ zhí

English	Pinyin
inner boundary	nèi biān jiè
inner function	nèi céng hán shù
 inner radius <i>/ˈɪnə ˈreɪdiəs/</i>	nèi bàn jìng
instant	shùn jiān
 instantaneous <i>/ˌɪnstənˈteɪniəs/</i>	shùn shí
instantaneous rate	shùn shí biàn huà lǜ
 instantaneous rate of change <i>/ˌɪnstənˈteɪniəs reɪt ɒv tʃeɪndʒ/</i>	shùn shí biàn huà lǜ
$\pm$ integer <i>/ˈɪntɪdʒə/</i>	zhěng shù
 integral <i>/ˈɪntɪgrəl/</i>	jī fēn
 integral test <i>/ˈɪntɪgrəl test/</i>	jī fēn pàn bié fǎ
integrand	bèi jī hán shù
Σ integration by parts <i>/ˌɪntɪˈɡreɪʃn baɪ pɑːts/</i>	fēn bù jī fēn fǎ
 Intermediate Value Theorem <i>/ˌɪntəˈmiːdiət ˈvæljuː ˈθiərəm/</i>	jiè zhí dìng lǐ
intersection points	jiāo diǎn
[] interval <i>/ˈɪntəvl/</i>	qū jiān
interval notation	qū jiān jì hào
[] interval of convergence <i>/ˈɪntəvl ɒv kənˈvɜːdʒəns/</i>	shōu liǎn qū jiān
 inverse function <i>/ɪnˈvɜːs ˈfʌŋkʃn/</i>	fǎn hán shù
 inverse trigonometric functions <i>/ɪnˈvɜːs ˌtrɪɡənəɒˈmetrɪk ˈfʌŋkʃnz/</i>	fǎn sān jiǎo hán shù
$\updownarrow$ jump <i>/dʒʌmp/</i>	tiào yuè

English	Pinyin
$\times$ jump discontinuity <i>/dʒʌmp diskɒntɪˈnjuːɪti/</i>	tiào yuè jiàn duàn diǎn
$\div$ L'Hospital's Rule <i>/ˈelɦɒspɪtlz ruːl/</i>	luò bì dá fǎ zé
 Lagrange error bound <i>/ˈlæɡreɪndʒ ˈerə baʊnd/</i>	lā gé lǎng rì wù chā jiè
leading coefficients	shǒu xiàng xì shù
$\leftarrow$ left-hand limit <i>/left hænd ˈlɪmɪt/</i>	zuǒ jí xiàn
$\rightarrow$ limit <i>/ˈlɪmɪt/</i>	jí xiàn
limit at infinity	wú qióng yuǎn chù de jí xiàn
 Limit comparison <i>/ˈlɪmɪt kəmˈpærɪsn/</i>	jí xiàn bǐ jiào
limit comparison test	jí xiàn bǐ jiào pàn bié fǎ
limit definition	jí xiàn dìng yì
 limit laws <i>/ˈlɪmɪt lɔːz/</i>	jí xiàn fǎ zé
 limit theorems <i>/ˈlɪmɪt ˈθiərəmz/</i>	jí xiàn dìng lǐ
[] limits of integration <i>/ˈlɪmɪts ɒv ˌɪntɪˈɡreɪʃn/</i>	jī fēn xiàn
line segment <i>/laɪn ˈseɡmənt/</i>	xiàn duàn
 linear approximation <i>/ˈlɪniə əˌprɒksɪˈmeɪʃn/</i>	xiàn xìng jìn sì
linear factors	xiàn xìng yīn shì
 linearity <i>/lɪˈniəriːti/</i>	xiàn xìng
$\nearrow$ linearization <i>/ˌlɪniərəɪˈzeɪʃn/</i>	xiàn xìng huà
$\updownarrow$ local (relative) extrema <i>/ˈləʊkl ekˈstreɪmə/</i>	jú bù jí zhí
local extremum	jú bù jí zhí
 local linearity <i>/ˈləʊkl lɪˈniəriːti/</i>	jú bù xiàn xìng xìng

English	Pinyin
 local maximum <i>/ˈləʊkl ˈmæksɪmə/</i>	jú bù jí dà zhí
 local minimum <i>/ˈləʊkl ˈmɪnɪmə/</i>	jú bù jí xiǎo zhí
 logarithmic <i>/ˈlɒgə ˈrɪθmɪk/</i>	duì shù
logistic differential equation	luó jí sī dì wēi fēn fāng chéng
 logistic model <i>/ləˈdʒɪstɪk ˈmɒdl/</i>	luó jí sī dì mó xíng
long division	zhǎng chú fǎ
» long-term behavior <i>/lɒŋ tɜːm brˈheɪvjə/</i>	cháng qī xíng tài
lower bound <i>/ˈləʊə baʊnd/</i>	xià jiè
 Maclaurin polynomial <i>/məˈkleɪrɪn ˈpɒliˈnəʊmɪəl/</i>	mài kè láo lín duō xiàng shì
$\times^2$ Maclaurin series <i>/məˈkleɪrɪn ˈsɪəriːz/</i>	mài kè láo lín jí shù
magnitude <i>/ˈmæɡnɪtjuːd/</i>	mó zhǎng
marginal cost <i>/ˈmɑːdʒɪnl kɒst/</i>	biān jì chéng běn
 Mean Value Theorem <i>/miːn ˈvæljuː ˈθɪərəm/</i>	zhōng zhí dìng lǐ
Mean Value Theorem for Integrals	jī fēn zhōng zhí dìng lǐ
• midpoint <i>/ˈmɪdpoɪnt/</i>	zhōng diǎn
Multiply by the conjugate	gòng è
natural logarithm <i>/ˈnætʃərəl ˈlɒɡərɪθəm/</i>	zì rán duì shù
negative exponent	fù zhǐ shù
negative power	fù mì
$\rightleftharpoons$ net change <i>/net tʃeɪndʒ/</i>	jìng biàn huà

English	Pinyin
 notations <i>/nəʊˈteɪʃnz/</i>	jì hào
 nth term test <i>/ˌenˌtiːˈeɪtʃ tɜːm test/</i>	tōng xiàng pàn bié fǎ
numerator <i>/ˈnjuːməreɪtə/</i>	fēn zǐ
 numerically <i>/njuːˈmerɪkli/</i>	shù zhí dì
objective <i>/ˈɒbˈdʒektɪv/</i>	mù biāo
$\langle \rangle$ one-sided limits <i>/wʌn ˈsaɪdɪd ˈlɪmɪts/</i>	dān cè jí xiàn
 open circle <i>/ˈəʊpən ˈsɜːkl/</i>	kōng xīn yuán
 optimization <i>/ˌɒptɪmaɪˈzeɪʃn/</i>	zuì yōu huà
order <i>/ˈɔːdə/</i>	shùn xù
 oscillates <i>/ˈɒsɪleɪts/</i>	zhèn dǎng
outer boundary	wài biān jiè
outer function	wài céng hán shù
 outer radius <i>/ˈaʊtə ˈreɪdiəs/</i>	wài bàn jìng
outermost operation	zuì wài céng yùn suàn
$\wedge$ overestimate <i>/ˌəʊvəˈrestɪmət/</i>	gāo gū
parallel <i>/ˈpærəlel/</i>	píng xíng
$()$ parameter <i>/pəˈræmɪtə/</i>	cān shù
$(\times)$ parametric equations <i>/ˌpærəˈmetrɪk ɪˈkweɪʒnz/</i>	cān shù fāng chéng
$\div$ partial fractions <i>/ˈpɑːʃl ˈfrækʃnz/</i>	bù fēn fēn shì
$\equiv$ partial sum <i>/ˈpɑːʃl sʌm/</i>	bù fēn hé
 particular solution <i>/pəˈtɪkjələ səˈluːʃn/</i>	tè jiě

English	Pinyin
 piecewise-defined function <i>/ˈpiːswaɪz dɪˈfaɪnd ˈfʌŋkʃn/</i> planar motion	fēn duàn hán shù píng miàn yùn dòng
 point of inflection <i>/pɔɪnt ɒv ɪnˈflekʃn/</i> points of intersection	guǎi diǎn jiāo diǎn
 polar coordinates <i>/ˈpəʊlə kəʊˈɔːdɪnəts/</i>	jí zuò biāo
$\times^2$ polynomial <i>/ˌpɒlɪˈnəʊmiəl/</i> population growth	duō xiàng shì zhǒng qún zēng zhǎng
 position <i>/pəˈzɪʃn/</i> position vector <i>/pəˈzɪʃn ˈvektə/</i>	wèi zhì wèi zhì xiàng liàng
 power <i>/ˈpaʊə/</i>	mì
 Power Rule <i>/ˈpaʊə ruːl/</i> power rule for integration	mì fǎ zé jī fēn mì fǎ zé
$\times^2$ power series <i>/ˈpaʊə ˈsiəriːz/</i> power/root	mì jí shù mì yǔ gēn
product <i>/ˈprɒdʌkt/</i>	chéng jī
$\times$ Product Rule <i>/ˈprɒdʌkt ruːl/</i> proportional <i>/prəˈpɔːʃnəl/</i> quotient <i>/ˈkwɒʃjənt/</i>	chéng jī fǎ zé chéng zhèng bǐ shāng
$\div$ Quotient Rule <i>/ˈkwɒʃjənt ruːl/</i> radians <i>/ˈreɪdiənz/</i>	shāng fǎ zé hú dù

English	Pinyin
$\sqrt{\quad}$ radical <i>/ˈrædɪkl/</i> radioactive decay <i>/ˌreɪdiəʊˈæktɪv dɪˈkeɪ/</i> radius <i>/ˈreɪdiəs/</i>	gēn shù fàng shè xìng shuāi biàn bàn jìng
 radius of convergence <i>/ˈreɪdiəs ɒv kənˈvɜːdʒəns/</i> rate <i>/reɪt/</i>	shōu liǎn bàn jìng biàn huà sù lǚ
 rate of change <i>/reɪt ɒv tʃeɪndʒ/</i>	biàn huà lǚ
$\div$ ratio of the leading coefficients <i>/ˈreɪʃiəʊ ɒv ðə ˈliːdɪŋ ˌkəʊˈfɪʃjənts/</i>	shǒu xiàng xī shù zhī bǐ
$\div$ ratio test <i>/ˈreɪʃiəʊ test/</i>	bǐ zhí pàn bié fǎ
$\div$ rational <i>/ˈræʃənl/</i>	yǒu lǐ
$\div$ rational expression <i>/ˈræʃənl ɛkˈspreʃn/</i>	fēn shì biǎo dá shì
$\div$ rational function <i>/ˈræʃənl ˈfʌŋkʃn/</i> rationalize	yǒu lǐ hán shù yǒu lǐ huà
reasonable <i>/ˈriːzənəbl/</i> reasonableness	hé lǐ hé lǐ xìng
$\div$ reciprocal <i>/rɪˈsɪprəkl/</i>	dào shǔ
 related rates <i>/rɪˈleɪtɪd reɪts/</i>	xiāng guān biàn huà lǚ
 relative magnitudes <i>/ˈrelətɪv ˈmæɡnɪtjuːdz/</i> relative maximum	xiāng duì dà xiǎo xiāng duì jí dà zhí
relative minimum	xiāng duì jí xiǎo zhí
remainder <i>/rɪˈmeɪndə/</i>	yú xiàng

English	Pinyin
 removable discontinuity <i>/rɪ'mu:vəbl dɪskɒntɪ'nju:ɪti/</i>	kě qù jiàn duàn diǎn
repair	xiū fù
repeatedly	fǎn fù
representation	biǎo shì
rewrite them with identities	héng děng shì
 Riemann sum <i>/'ri:mən sʌm/</i>	lí màn hé
→ right-hand limit <i>/raɪt hænd 'lɪmɪt/</i>	yòu jí xiàn
root <i>/ru:t/</i>	gēn
round-off	shě rù wù chā
rule <i>/ru:l/</i>	fǎ zé
 scale <i>/skeɪl/</i>	bǐ lì
 secant line <i>/'si:kənt laɪn/</i>	gē xiàn
 second derivative <i>/'sekənd dɪ'rɪvətɪv/</i>	èr jiē dǎo shù
 Second Derivative Test <i>/'sekənd dɪ'rɪvətɪv test/</i>	èr jiē dǎo shù pàn bié fǎ
sector <i>/'sektə/</i>	shàn xíng
semicircle <i>/'semɪsɜ:kəl/</i>	bàn yuán
 separable <i>/'sepərəbl/</i>	kě fēn lí
separation of variables <i>/,sepə'reɪʃn ɒv 'veəriəblz/</i>	fēn lí biàn liàng fǎ
shifted axis	píng yí zhóu
sign analysis	fú hào fēn xī
 sign chart <i>/saɪn tʃɑ:t/</i>	fú hào biǎo

English	Pinyin
 sign of the first derivative <i>/saɪn ɒvðə fɜ:st dɪ'rɪvətɪv/</i>	yī jiē dǎo shù de fú hào
 sign of the second derivative <i>/saɪn ɒvðə 'sekənd dɪ'rɪvətɪv/</i>	èr jiē dǎo shù de fú hào
 signed area <i>/saɪnd 'eəriə/</i>	yǒu fú hào miàn jī
sketch	cǎo huì
 slope <i>/sləʊp/</i>	xié lǜ
 slope field <i>/sləʊp fi:ld/</i>	xié lǜ chǎng
slowing down	jiǎn sù
smooth curve	guāng huá qū xiàn
solid of revolution <i>/'sɒlɪd ɒv ,revə'lju:ʃn/</i>	xuán zhuǎn tǐ
 solution curve <i>/sə'lju:ʃn kɜ:v/</i>	jiě qū xiàn
 speed <i>/spi:d/</i>	sù lǜ
speeding up	jiā sù
speedometer	sù dù jì
 Squeeze Theorem <i>/skwi:z 'θɪərəm/</i>	jiā bī dīng lǐ
 step size <i>/step saɪz/</i>	bù zhǎng
strategy <i>/'strætədʒi/</i>	cè lüè
subinterval	zì qū jiān
substitution <i>/sʌbstɪ'tju:ʃn/</i>	dài huàn
 sufficiently <i>/sə'fɪjəntli/</i>	zú gòu
sum rule	hé fǎ zé

English	Pinyin
sum/difference	hé chà
Σ summation notation <i>/sʌ'meɪʃn nəu'teɪʃn/</i>	qiú hé jì hào
 table <i>/'teɪbl/</i>	biǎo gé
 tangent line <i>/'tændʒənt laɪn/</i>	qiè xiàn
 Taylor polynomial <i>/'teɪlə ,pɒlɪ'nəʊmɪəl/</i>	tài lēi duō xiàng shì
Σ Taylor series <i>/'teɪlə 'sɪəri:z/</i>	tài lēi jí shù
term by term	zhú xiàng
three conditions	sān gè tiáo jiàn
 time <i>/taɪm/</i>	shí jiān
 total distance <i>/'təʊtl 'dɪstəns/</i>	zǒng lù chéng
total distance traveled	zǒng lù chéng
 trapezoidal rule <i>/'træpɪzɔɪdl ru:l/</i>	tī xíng fǎ zé
 trapezoidal sum <i>/'træpɪzɔɪdl sʌm/</i>	tī xíng fǎ
 trigonometric <i>/,trɪgənəʊ'metrɪk/</i>	sān jiǎo
 u-substitution <i>/'ju: ,sʌbstɪ'tju:ʃn/</i>	huàn yuán fǎ
 unbounded <i>/ʌn'baʊndɪd/</i>	wú jiè
undefined	wú dìng yì
 underestimate <i>/,ʌndə'restɪmət/</i>	dī gū
 units <i>/'ju:nɪts/</i>	dān wèi
upper bound <i>/'ʌpə baʊnd/</i>	shàng jiè
 variable <i>/'veəriəbl/</i>	biàn liàng

English	Pinyin
variable upper limit	kě biàn shàng xiàn
 vector-valued function <i>/'vektə 'vælju:d 'fʌŋkʃn/</i>	xiàng liàng zhí hán shù
 velocity <i>/'və'lɒsɪti/</i>	sù dù
velocity vector	sù dù xiàng liàng
verbally	yòng wén zì
verify	yàn zhèng
 vertical asymptote <i>/'vɜ:tɪkl 'æsɪmptəʊt/</i>	shù zhí jiàn jìn xiàn
vertical slices	shù zhí qiē piàn
 vertical tangent <i>/'vɜ:tɪkl 'tændʒənt/</i>	shù zhí qiè xiàn
volume <i>/'vɒlju:m/</i>	tǐ jī
 washer method <i>/'wɒʃə 'meθəd/</i>	diàn juàn fǎ
without bound	wú jiè
zeros <i>/'ziərəʊz/</i>	líng diǎn