

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>/ˈæbsəlu:t ˈvælju:/</i>	jué duì zhí
absolutely convergent	jué duì shōu liǎn
 acceleration <i>/ək,selə'reɪʃn/</i>	jiā sù dù
acceleration vector	jiā sù dù xiàng liàng
 accumulation <i>/ə,kju:mjuˈleɪʃn/</i>	lěi jī
 accumulation function <i>/ə,kju:mjuˈleɪʃn 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>/ˈɔ:ltənertɪŋ ˈsɪəri:z/</i>	jiāo cuò jí shù
 alternating series error bound <i>/ˈɔ:ltənertɪŋ ˈsɪəri:z ˈerə baʊnd/</i>	jiāo cuò jí shù wù chā jiè
alternating series test	jiāo cuò jí shù pàn bié fǎ
 analytically <i>/,ænəˈlɪtkli/</i>	jiě xī dì
 antiderivative <i>/,æntɪdɪˈrɪvətɪv/</i>	yuán hán shù
 antidifferentiation <i>/,æntɪˌdɪfə,renʃiˈeɪʃn/</i>	qiú yuán hán shù
approach	qū jìn

English	Pinyin
approximate <i>/ə'prɒksɪmət/</i>	jìn sì
∞ arbitrarily <i>/,ɑ:bi'trɛrɪli/</i>	rèn yì dì
 arc length <i>/ɑ:k lɛŋθ/</i>	hú zhǎng
arctangent	fǎn zhèng qiè
 area <i>/'eəriə/</i>	miàn jī
 at a single instant <i>/ætə 'sɪŋgl 'ɪnstənt/</i>	shùn jiān
 at rest <i>/æt rest/</i>	jìng zhǐ
 average rate of change <i>/'ævri:dʒ reɪt ɒv tʃeɪndʒ/</i>	píng jūn biàn huà lǜ
 average value <i>/'ævri:dʒ 'vælju:/</i>	píng jūn zhí
axis of revolution	xuán zhuàn zhóu
 behavior <i>/bɪ'heɪvjə/</i>	xìng tài
benchmark	jī zhǔn
calculus <i>/'kælkjʊləs/</i>	wēi jī fēn
candidates	hòu xuǎn diǎn
 Candidates Test <i>/'kændɪdeɪts test/</i>	hòu xuǎn diǎn pàn bié fǎ
 carrying capacity <i>/'kæɪrɪŋ kə'pæsɪti/</i>	huán jìng róng nà liàng
 Cartesian <i>/kɑ:'ti:ziən/</i>	zhí jiǎo zuò biāo
 chain rule <i>/tʃeɪn ru:l/</i>	liàn shì fǎ zé
$\pm$ change <i>/tʃeɪndʒ/</i>	biàn huà
 closed circle <i>/kləʊzd 'sɜ:kəl/</i>	shí xīn yuán
closed interval	bì qū jiān

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

English	Pinyin
context <i>/ˈkɒntekst/</i>	qíng jìng
— continuous <i>/kənˈtɪnju:əs/</i>	lián xù
 continuous on an interval <i>/kənˈtɪnju:əs ɒn ən ˈɪntəvl/</i>	zài qū jiān shàng lián xù
converge <i>/kənˈvɜ:dʒ/</i>	shōu liǎn
convergent <i>/kənˈvɜ:dʒənt/</i>	shōu liǎn
 converges absolutely <i>/kənˈvɜ:dʒɪz ,æbsəˈlu:tli/</i>	jué duì shōu liǎn
 converges conditionally <i>/kənˈvɜ:dʒɪz kənˈdɪʃənəli/</i>	tiáo jiàn shōu liǎn
 corner <i>/ˈkɔ:nə/</i>	jiān jiǎo
counterexample	fǎn lì
 critical point <i>/ˈkrɪtɪkl pɔɪnt/</i>	lín jiè diǎn
cross section <i>/krɒs ˈseksʃn/</i>	héng jié miàn
 cusp <i>/kʌsp/</i>	jiān diǎn
 decreasing <i>/diːkri:sɪŋ/</i>	dì jiǎn
[] definite integral <i>/ˈdefɪnət ˈɪntɪgrəl/</i>	dìng jī fēn
degree <i>/diˈɡri:/</i>	cì shù
denominator <i>/diˈnɒmɪneɪtə/</i>	fēn mǔ
dependent variable <i>/diˈpendənt ˈveəriəbl/</i>	yīn biàn liàng
 derivative <i>/diˈrɪvətɪv/</i>	dǎo shù
derivative notation	dǎo shù jì hào
 difference quotient <i>/ˈdɪfrəns ˈkwɒʃənt/</i>	chà shāng

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

English	Pinyin
» end behavior /end bi'heivjə/ end-behavior endpoint equation /i'kweiʒn/ equilibrium /i:kwɪ'libriəm/ = equivalent form /i'kwɪvələnt fɔ:m/ error /'erə/ ❓ estimate /'estɪmət/ 🔗 Euler's method /'ɔɪləz 'meθəd/ ✅ existence theorem /eg'zɪstəns 'θiərəm/ exists ×² exponential /ˌekspə'nenʃl/ ↘ exponential decay /ˌekspə'nenʃl di'keɪ/ ↗ exponential growth /ˌekspə'nenʃl grəʊθ/ ↗ exponential growth or decay /ˌekspə'nenʃl grəʊθ ɔ: di'keɪ/ ↗ exponential model /ˌekspə'nenʃl 'mɒdl/ extended function [] Extreme Value Theorem /ek'stri:m 'vælju: 'θiərəm/ extremum ✕ Factor and cancel /'fæktə ænd 'kænsəl/	mò duān xíng wéi mò duān xìng tài duān diǎn fāng chéng píng héng děng jià xíng shì wù chā gū jì zhí ōu lā fǎ cún zài xìng dìng lǐ cún zài zhǐ shù zhǐ shù shuāi jiǎn zhǐ shù zēng zhǎng zhǐ shù zēng zhǎng zhǐ shù mó xíng yán tuò hán shù jí zhí dìng lǐ jí zhí 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 dɪ'rɪvətɪv test/</i>	yī jiē dǎo shù pàn bié fǎ
 first principles <i>/fɜ:st 'prɪnsɪplz/</i>	yòng dìng yì qiú dǎo
flow <i>/fləʊ/</i>	liú liàng
function value	hán shù zhí
 Fundamental Theorem of Calculus <i>/fʌndə'mentl 'θɪərəm ɒv 'kælkjʊləs/</i>	wēi jī fēn jī běn dìng lǐ
 Fundamental Theorem of Calculus (FTC) <i>/fʌndə'mentl 'θɪərəm ɒv 'kælkjʊləs/</i>	wēi jī fēn jī běn dìng lǐ
general solution <i>/dʒenərəl sə'lu:ʃn/</i>	tōng jiě
 geometric series <i>/dʒi:əʊ'metɪk '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>/'græfɪkli/</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:'mɒnɪk 'siəri:z/</i>	tiáo hé jí shù

English	Pinyin
 higher-order derivatives <i>/ˈhaɪə ˈɔːdə diˈrɪvətɪvz/</i>	gāo jiē dǎo shù
 hole <i>/həʊl/</i>	dòng
— horizontal asymptote <i>/ˌhɒrɪˈzɒntl ˈæsɪmptəʊt/</i>	shuǐ píng jiàn jìn xiàn
horizontal slices	shuǐ píng qiē piàn
horizontal tangent	shuǐ píng qiè xiàn
hypothesis <i>/haɪˈpəθəsis/</i>	qián tí
(x) implicit differentiation <i>/ɪmˈplɪsɪt ˌdɪfəˈrenʃiˈeɪʃn/</i>	yǐn hán shù qiú dǎo
implicit relation	yǐn shì guān xì
implicitly defined <i>/ɪmˈplɪsɪtli dɪˈfaɪnd/</i>	yǐn shì dìng yì
 improper integral <i>/ɪmˈprɒpə ˈɪntɪgrəl/</i>	fǎn cháng jī fēn
 inconclusive <i>/ɪŋkənˈkluːsɪv/</i>	wú fǎ pàn dìng
 increasing <i>/ɪnˈkriːsɪŋ/</i>	dì zēng
 indefinite integral <i>/ɪnˈdefɪnət ˈɪntɪgrəl/</i>	bù dìng jī fēn
independent variable <i>/ˌɪndɪˈpendənt ˈveəriəbl/</i>	zì biàn liàng
 indeterminate form <i>/ˌɪndɪˈtɜːmɪnət fɔːm/</i>	bù dìng xíng
 infinite discontinuity <i>/ˈɪnfɪnət dɪskɒntɪˈnjuːɪti/</i>	wú qióng jiàn duàn diǎn
 infinite limit <i>/ˈɪnfɪnət ˈlɪmɪt/</i>	wú qióng jí xiàn
infinite sequence	wú qióng shù liè
 infinite series <i>/ˈɪnfɪnət ˈsɪəriːz/</i>	wú qióng jí shù
 initial condition <i>/ɪˈnɪʃl kənˈdɪʃn/</i>	chū shǐ tiáo jiàn
initial value <i>/ɪˈnɪʃl ˈvæljuː/</i>	chū shǐ zhí

English	Pinyin
inner boundary	nèi biān jiè
inner function	nèi céng hán shù
 inner radius <i>/ˈɪnəˈreɪdiəs/</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
 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 ˈθɪərəm/</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 ˌtrɪɡənəʊˈmetrɪk ˈfʌŋkʃnz/</i>	fǎn sān jiǎo hán shù
 jump <i>/dʒʌmp/</i>	tiào yuè

English	Pinyin
 jump discontinuity <i>/dʒʌmp dɪskɒntɪ'nju:ɪti/</i>	tiào yuè jiàn duàn diǎn
 L'Hospital's Rule <i>/'elɦɒspɪtlz ru:l/</i>	luò bì dá fǎ zé
 Lagrange error bound <i>/'lægreɪndʒ 'erə baʊnd/</i>	lā gé lǎng rì wù chā jiè
leading coefficients	shǒu xiàng xì shù
 left-hand limit <i>/'left hænd 'lɪmɪt/</i>	zuǒ jí xiàn
 limit <i>/'lɪmɪt/</i>	jí xiàn
limit at infinity	wú qióng yuǎn chù de jí xiàn
 Limit comparison <i>/'lɪmɪt kəm'pærɪsn/</i>	jí xiàn bǐ jiào
limit comparison test	jí xiàn bǐ jiào pàn bié fǎ
limit definition	jí xiàn dìng yì
 limit laws <i>/'lɪmɪt lɔ:z/</i>	jí xiàn fǎ zé
 limit theorems <i>/'lɪmɪt 'θɪərəməz/</i>	jí xiàn dìng lǐ
 limits of integration <i>/'lɪmɪts ɒv ,ɪntɪ'greɪʃn/</i>	jī fēn xiàn
line segment	xiàn duàn
<i>/laɪn 'seɡmənt/</i>	
 linear approximation <i>/'lɪniə ə,prɒksɪ'meɪʃn/</i>	xiàn xíng jìn sì
linear factors	xiàn xíng yīn shì
 linearity <i>/'li'niərɪti/</i>	xiàn xíng
 linearization <i>/'lɪniərəɪ'zeɪʃn/</i>	xiàn xíng huà
 local (relative) extrema <i>/'ləʊkl ek'stremə/</i>	jú bù jí zhí
local extremum	jú bù jí zhí
 local linearity <i>/'ləʊkl li'niərɪti/</i>	jú bù xiàn xíng xíng

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>/ˌlɒgəˈrɪθmɪk/</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 tɜ:m brˈheɪvjə/</i>	cháng qī xíng tài
lower bound <i>/ˈləʊə baʊnd/</i>	xià jiè
 Maclaurin polynomial <i>/məˈklɔ:rɪn ˌpɒliˈnəʊmɪəl/</i>	mài kè láo lín duō xiàng shì
$\times^2$ Maclaurin series <i>/məˈklɔ:rɪn ˈsɪəri:z/</i>	mài kè láo lín jí shù
magnitude <i>/ˈmæɡnɪtju:d/</i>	mó zhǎng
marginal cost <i>/ˈmɑ:dʒɪnl kɒst/</i>	biān jì chéng běn
 Mean Value Theorem <i>/mi:n ˈvælju: ˈθiərəm/</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 ˈlɒgərɪθəm/</i>	zì rán duì shù
negative exponent	fù zhǐ shù
negative power	fù mì
 net change <i>/net tʃeɪndʒ/</i>	jìng biàn huà

English	Pinyin
T notations <i>/nəʊ'teɪʃnz/</i>	jì hào
 nth term test <i>/,en,ti:'eɪtʃ tɜ:m test/</i>	tōng xiàng pàn bié fǎ
numerator <i>/'nju:məreɪtə/</i>	fēn zǐ
 numerically <i>/nju:'merɪkli/</i>	shù zhí dì
objective <i>/ɒb'dʒektɪv/</i>	mù biāo
<> one-sided limits <i>/wʌn 'saɪdɪd 'lɪmɪts/</i>	dān cè jí xiàn
 open circle <i>/'əʊpən 'sɜ:kl/</i>	kōng xīn yuán
 optimization <i>/,ɒptɪmaɪ'zeɪʃn/</i>	zuì yōu huà
order <i>/'ɔ:də/</i>	shùn xù
 oscillates <i>/'ɒsɪleɪts/</i>	zhèn dòng
outer boundary	wài biān jiè
outer function	wài céng hán shù
 outer radius <i>/'aʊtə 'reɪdɪəs/</i>	wài bàn jìng
outermost operation	zuì wài céng yùn suàn
^ overestimate <i>/,əʊvə'restɪmət/</i>	gāo gū
parallel <i>/'pærəlel/</i>	píng xíng
() parameter <i>/pə'ræmɪtə/</i>	cān shù
(x) parametric equations <i>/,pærə'metrɪk ɪ'kweɪʒnz/</i>	cān shù fāng chéng
÷ partial fractions <i>/'pa:ʃl 'frækʃnz/</i>	bù fēn fēn shì
 partial sum <i>/'pa:ʃl sʌm/</i>	bù fēn hé
 particular solution <i>/pə'tɪkjələ sə'lu:ʃn/</i>	tè jiě

English	Pinyin
 piecewise-defined function <i>/ˈpiːswaɪz diˈfaɪnd ˈfʌŋkʃn/</i> planar motion	fēn duàn hán shù
 point of inflection <i>/pɔɪnt ɒv ɪnˈflekʃn/</i> points of intersection	píng miàn yùn dòng guǎi diǎn
 polar coordinates <i>/ˈpəʊlə kəʊˈɔːdɪnəts/</i>	jiāo diǎn jí zuò biāo
 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
 power series <i>/ˈpaʊə ˈsɪəriːz/</i> power/root product <i>/ˈprɒdʌkt/</i>	mì jí shù mì yǔ gēn chéng jī
 Product Rule <i>/ˈprɒdʌkt ruːl/</i> proportional <i>/prəˈpɔːʃənəl/</i> quotient <i>/ˈkwɒʃjənt/</i>	chéng jī fǎ zé chéng zhèng bǐ shāng
 Quotient Rule <i>/ˈkwɒʃjənt ruːl/</i> radians <i>/ˈreɪdiənz/</i>	shāng fǎ zé hú dù

English	Pinyin
$\sqrt{\quad}$ radical <i>/ˈrædɪkl/</i>	gēn shì
radioactive decay <i>/ˌreɪdɪəʊˈæktɪv dɪˈkeɪ/</i>	fàng shè xìng shuāi biàn
radius <i>/ˈreɪdɪəs/</i>	bàn jìng
radius of convergence <i>/ˈreɪdɪəs ɒv kənˈvɜːdʒəns/</i>	shōu liǎn bàn jìng
rate <i>/reɪt/</i>	biàn huà sù lǜ
rate of change <i>/reɪt ɒv tʃeɪndʒ/</i>	biàn huà lǜ
$\div$ ratio of the leading coefficients <i>/ˈreɪʃiəʊ ɒv ðə ˈliːdɪŋ ˌkəʊɪˈfɪjənts/</i>	shǒu xiàng xī shù zhī bǐ
$\div$ ratio test <i>/ˈreɪʃiəʊ test/</i>	bǐ zhí pàn bié fǎ
$\div$ rational <i>/ˈræʃənəl/</i>	yǒu lǐ
$\div$ rational expression <i>/ˈræʃənəl ɪkˈspresjən/</i>	fēn shì biǎo dá shì
$\div$ rational function <i>/ˈræʃənəl ˈfʌŋkʃən/</i>	yǒu lǐ hán shù
rationalize	yǒu lǐ huà
reasonable <i>/ˈriːzənəbl/</i>	hé lǐ
reasonableness	hé lǐ xìng
$\div$ reciprocal <i>/rɪˈsɪprəkl/</i>	dào shǔ
∞ related rates <i>/rɪˈleɪtɪd reɪts/</i>	xiāng guān biàn huà lǜ
∞ relative magnitudes <i>/ˈrelatɪv ˈmæɡnɪtjuːdz/</i>	xiāng duì dà xiǎo
relative maximum	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:kl/</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 vɒðə fɜːst dɪ'rɪvətɪv/</i>	yī jiē dǎo shù de fú hào
 sign of the second derivative <i>/saɪn vɒðə '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 lǚ
 slope field <i>/sləʊp fiːld/</i>	xié lǚ chǎng
slowing down	jiǎn sù
smooth curve	guāng huá qū xiàn
solid of revolution <i>/'sɒlɪd vɒ ,revə'luːʃn/</i>	xuán zhuǎn tǐ
 solution curve <i>/sə'luːʃn kɜːv/</i>	jiě qū xiàn
 speed <i>/spiːd/</i>	sù lǚ
speeding up	jiā sù
speedometer	sù dù jì
 Squeeze Theorem <i>/skwiːz 'θiərəm/</i>	jiā bī dǐng lǐ
 step size <i>/step saɪz/</i>	bù zhǎng
strategy <i>/'strætədʒi/</i>	cè lüè
subinterval	zì qū jiān
substitution <i>/,sʌbstɪ'tjuːʃn/</i>	dài huàn
 sufficiently <i>/sə'fɪʃəntli/</i>	zú gòu
sum rule	hé fǎ zé

English	Pinyin
sum/difference	hé chà
Σ summation notation <i>/sʌ'meɪʃn nəʊ'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 'sɪəriːz/</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 ruːl/</i>	tī xíng fǎ zé
 trapezoidal sum <i>/'træpɪzɔɪdl sʌm/</i>	tī xíng fǎ
 trigonometric <i>/,trɪɡənəʊ'metrɪk/</i>	sān jiǎo
 u-substitution <i>/juː ,sʌbstɪ'tjuːʃn/</i>	huàn yuán fǎ
 unbounded <i>/ʌn'baʊndɪd/</i>	wú jiè
undefined	wú dìng yì
 underestimate <i>/,ʌndə'restɪmət/</i>	dī gū
 units <i>/'juːnɪts/</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>/ˈvektə ˈvæljuːd ˈfʌŋkʃn/</i>	xiàng liàng zhí hán shù
 velocity <i>/vəˈlɒsɪti/</i>	sù dù
velocity vector	sù dù xiàng liàng
verbally	yòng wén zì
verify	yàn zhèng
 vertical asymptote <i>/ˈvɜːtɪkl ˈæsɪmptəʊt/</i>	shù zhí jiàn jìn xiàn
vertical slices	shù zhí qiē piàn
 vertical tangent <i>/ˈvɜːtɪkl ˈtændʒənt/</i>	shù zhí qiè xiàn
volume <i>/ˈvɒljʊːm/</i>	tǐ jī
 washer method <i>/ˈwɒʃə ˈmeθəd/</i>	diàn juàn fǎ
without bound	wú jiè
zeros <i>/ˈzɪərəʊz/</i>	líng diǎn