

T1 change	T1 accumulation	T1 limit
T1 at a single instant	T1 average rate of change	T1 interval
T1 instantaneous rate of change	T1 approaches	T1 derivative

T1 极限 jí xiàn	T1 累积 lěi jī	T1 变化 biàn huà
T1 区间 qū jiān	T1 平均变化率 píng jūn biàn huà lǜ	T1 瞬间 shùn jiān
T1 导数 dǎo shù	T1 趋近 qū jìn	T1 瞬时变化率 shùn shí biàn huà lǜ

T1 integral	T1 arbitrarily	T1 sufficiently
T1 behavior	T1 graphically	T1 numerically
T1 analytically	T1 left-hand limit	T1 right-hand limit

T1 足够 zú gòu	T1 任意地 rèn yì dì	T1 积分 jī fēn
T1 用数值 yòng shù zhí	T1 用图象 yòng tú xiàng	T1 行为 xíng wéi
T1 右极限 yòu jí xiàn	T1 左极限 zuǒ jí xiàn	T1 用解析式 yòng jiě xī shì

T1 one-sided limits	T1 open circle	T1 hole
T1 closed circle	T1 jump	T1 unbounded
T1 oscillates	T1 scale	T1 table

T1 空洞 kōng dòng	T1 空心圆 kōng xīn yuán	T1 单侧极限 dān cè jí xiàn
T1 无界 wú jiè	T1 跳跃 tiào yuè	T1 实心圆 shí xīn yuán
T1 表格 biǎo gé	T1 比例 bǐ lì	T1 振荡 zhèn dòng

T1 limit theorems	T1 Composite	T1 direct substitution
T1 indeterminate form	T1 equivalent form	T1 Factor and cancel
T1 rational function	T1 conjugate	T1 radical

T1 直接代入 zhí jiē dài rù	T1 复合函数 fù hé hán shù	T1 极限定理 jí xiàn dìng lǐ
T1 因式分解并约分 yīn shì fēn jiě bìng yuē fēn	T1 等价形式 děng jià xíng shì	T1 未定式 wèi dìng shì
T1 根式 gēn shì	T1 共轭 gòng è	T1 有理函数 yǒu lǐ hán shù

T1 dominant	T1 squeeze theorem	T1 discontinuous
T1 Removable discontinuity	T1 Jump discontinuity	T1 Infinite discontinuity
T1 vertical asymptote	T1 continuous	T1 continuous on an interval

T1 间断 jiàn duàn	T1 夹逼定理 jiā bī dìng lǐ	T1 主导 zhǔ dǎo
T1 无穷间断 wú qióng jiàn duàn	T1 跳跃间断 tiào yuè jiàn duàn	T1 可去间断 kě qù jiàn duàn
T1 在区间上连续 zài qū jiān shàng lián xù	T1 连续 lián xù	T1 垂直渐近线 chuí zhí jiàn jìn xiàn

T1 exponential	T1 logarithmic	T1 trigonometric
T1 piecewise-defined function	T1 parameter	T1 infinite limits
T1 limits at infinity	T1 end behavior	T1 horizontal asymptote

T1 三角 sān jiǎo	T1 对数 duì shù	T1 指数 zhǐ shù
T1 无穷极限 wú qióng jí xiàn	T1 参数 cān shù	T1 分段函数 fēn duàn hán shù
T1 水平渐近线 shuǐ píng jiàn jìn xiàn	T1 末端行为 mò duān xíng wéi	T1 无穷远处的极限 wú qióng yuǎn chù de jí xiàn

T1 degrees	T1 ratio of the leading coefficients	T1 relative magnitudes
T1 Intermediate Value Theorem	T1 existence theorem	T2 derivative
T2 difference quotient	T2 instantaneous	T2 first principles

T1 相对大小 xiāng duì dà xiǎo	T1 首项系数之比 shǒu xiàng xì shù zhī bǐ	T1 次数 cì shù
T2 导数 dǎo shù	T1 存在性定理 cún zài xìng dìng lǐ	T1 介值定理 jiè zhí dìng lǐ
T2 用定义求导 yòng dìng yì qiú dǎo	T2 瞬时 shùn shí	T2 差商 chà shāng

T2 notations	T2 slope	T2 tangent line
T2 table	T2 units	T2 differentiable
T2 continuous	T2 corner	T2 vertical tangent

T2 切线 qiè xiàn	T2 斜率 xié lǜ	T2 记号 jì hào
T2 可导 kě dǎo	T2 单位 dān wèi	T2 表格 biǎo gé
T2 垂直切线 chuí zhí qiè xiàn	T2 尖点 jiān diǎn	T2 连续 lián xù

T2 power rule	T2 Constant multiple	T2 polynomial
T2 product rule	T2 quotient rule	T2 identities
T2 second derivative	T3 chain rule	T3 composite function

T2 多项式 duō xiàng shì	T2 常数倍 cháng shù bèi	T2 幂法则 mì fǎ zé
T2 恒等式 héng děng shì	T2 商法则 shāng fǎ zé	T2 乘积法则 chéng jī fǎ zé
T3 复合函数 fù hé hán shù	T3 链式法则 liàn shì fǎ zé	T2 二阶导数 èr jiē dǎo shù

T3 Implicit differentiation	T3 inverse function	T3 reciprocal
T3 inverse trigonometric functions	T3 second derivative	T3 concavity
T4 position	T4 velocity	T4 acceleration

T3 倒数 dào shǔ	T3 反函数 fǎn hán shù	T3 隐函数求导 yǐn hán shù qiú dǎo
T3 凹凸性 āo tū xìng	T3 二阶导数 èr jiē dǎo shù	T3 反三角函数 fǎn sān jiǎo hán shù
T4 加速度 jiā sù dù	T4 速度 sù dù	T4 位置 wèi zhì

T4 at rest	T4 Speed	T4 related rates
T4 local linearity	T4 linear approximation	T4 concavity
T4 underestimate	T4 overestimate	T4 indeterminate form

T4 相关变化率 xiāng guān biàn huà lǜ	T4 速率 sù lǜ	T4 静止 jìng zhǐ
T4 凹凸性 āo tū xìng	T4 线性近似 xiàn xìng jìn sì	T4 局部线性 jú bù xiàn xìng
T4 未定式 wèi dìng shì	T4 高估 gāo gū	T4 低估 dī gū

T4 L'Hospital's Rule	T5 Mean Value Theorem	T5 Extreme Value Theorem
T5 critical point	T5 local (relative) extrema	T5 increasing
T5 decreasing	T5 local maximum	T5 local minimum

T5 极值定理 jí zhí dìng lǐ	T5 中值定理 zhōng zhí dìng lǐ	T4 洛必达法则 luò bì dá fǎ zé
T5 递增 dì zēng	T5 局部极值 jú bù jí zhí	T5 临界点 lín jiè diǎn
T5 极小值 jí xiǎo zhí	T5 极大值 jí dà zhí	T5 递减 dì jiǎn

T5 concave up	T5 concave down	T5 point of inflection
T5 Optimization	T6 integral	T6 accumulation
T6 Riemann sum	T6 trapezoidal sum	T6 definite integral

T5 拐点 guǎi diǎn	T5 下凹 xià āo	T5 上凹 shàng āo
T6 累积 lěi jī	T6 积分 jī fēn	T5 最优化 zuì yōu huà
T6 定积分 dìng jī fēn	T6 梯形法 tī xíng fǎ	T6 黎曼和 lí màn hé

T6 accumulation function	T6 Fundamental Theorem of Calculus (FTC)	T6 antiderivative
T6 indefinite integral	T6 u-substitution	T6 Integration by parts
T6 Partial fractions	T6 improper integral	T6 converges

T6 原函数 yuán hán shù	T6 微积分基本定理 wēi jī fēn jī běn dìng lǐ	T6 累积函数 lěi jī hán shù
T6 分部积分 fēn bù jī fēn	T6 换元积分 huàn yuán jī fēn	T6 不定积分 bù dìng jī fēn
T6 收敛 shōu liǎn	T6 反常积分 fǎn cháng jī fēn	T6 部分分式 bù fēn fēn shì

T6 diverges	T7 differential equation	T7 slope field
T7 Euler's method	T7 separable	T7 initial condition
T7 exponential growth or decay	T7 logistic model	T7 carrying capacity

T7 斜率场 xié lǜ chǎng	T7 微分方程 wēi fēn fāng chéng	T6 发散 fā sàn
T7 初始条件 chū shǐ tiáo jiàn	T7 可分离 kě fēn lí	T7 欧拉方法 ōu lā fāng fǎ
T7 环境容纳量 huán jìng róng nà liàng	T7 逻辑斯蒂模型 luó jí sī dì mó xíng	T7 指数增长 zhǐ shù zēng zhǎng

T8 average value	T8 displacement	T8 total distance
T8 cross sections	T8 disc method	T8 washer method
T8 arc length	T9 Parametric equations	T9 vector-valued function

T8 总路程 zǒng lù chéng	T8 位移 wèi yí	T8 平均值 píng jūn zhí
T8 垫圈法 diàn juàn fǎ	T8 圆盘法 yuán pán fǎ	T8 横截面 héng jié miàn
T9 向量值函数 xiàng liàng zhí hán shù	T9 参数方程 cān shù fāng chéng	T8 弧长 hú zhǎng

T9 Polar coordinates	T10 infinite series	T10 partial sums
T10 converges	T10 diverges	T10 geometric series
T10 integral test	T10 harmonic series	T10 Direct comparison

T10 部分和 bù fèn hé	T10 无穷级数 wú qióng jí shù	T9 极坐标 jí zuò biāo
T10 几何级数 jǐ hé jí shù	T10 发散 fā sàn	T10 收敛 shōu liǎn
T10 直接比较 zhí jiē bǐ jiào	T10 调和级数 tiáo hé jí shù	T10 积分判别法 jī fēn pàn bié fǎ

T10 Limit comparison	T10 alternating series	T10 ratio test
T10 converges absolutely	T10 converges conditionally	T10 Taylor polynomial
T10 Lagrange error bound	T10 power series	T10 radius of convergence

T10 比值判别法 bǐ zhí pàn bié fǎ	T10 交错级数 jiāo cuò jí shù	T10 极限比较 jí xiàn bǐ jiào
T10 泰勒多项式 tài lēi duō xiàng shì	T10 条件收敛 tiáo jiàn shōu liǎn	T10 绝对收敛 jué duì shōu liǎn
T10 收敛半径 shōu liǎn bàn jìng	T10 幂级数 mì jí shù	T10 拉格朗日误差界 lā gé lǎng rì wù chā jiè

T10

interval of convergence

T10

收敛区间

shōu liǎn qū jiān