



I 集合与常用逻辑用语

1.集合的概念与表示

Table with definitions of sets, elements, and various set operations like union, intersection, and complement.

2.集合的关系

Table showing relationships between sets, including subset, proper subset, and set equality.

3.常用数集及记法

Table listing common number sets: N (natural numbers), Z (integers), Q (rational numbers), R (real numbers).

4.集合的基本运算

Table detailing basic set operations: union, intersection, complement, and Cartesian product.

II 常用逻辑用语

Table covering logical connectives (and, or, not, if-then), truth tables, and necessary/sufficient conditions.

Table covering quantifiers (universal and existential) and their negations.

Table covering common inequalities (linear, quadratic, fractional) and their basic properties.

Table covering the Mean Value Theorem and inequalities involving absolute values.

Table covering derivatives: concepts, rules for finding derivatives, and applications like monotonicity and extrema.

复数

I 代数形式 z = x + yi

Table defining complex numbers, their algebraic form, and operations like addition and multiplication.

II 运算

Table detailing operations on complex numbers, including addition, subtraction, multiplication, and division.

函数

I 函数基本性质

Table describing basic function properties: odd/even, monotonicity, and periodicity.

III 基本初等函数

Table covering basic elementary functions: power, exponential, logarithmic, and trigonometric functions.

II 函数及其表示

Table detailing function representations: mapping, definition, and various methods like tables and graphs.

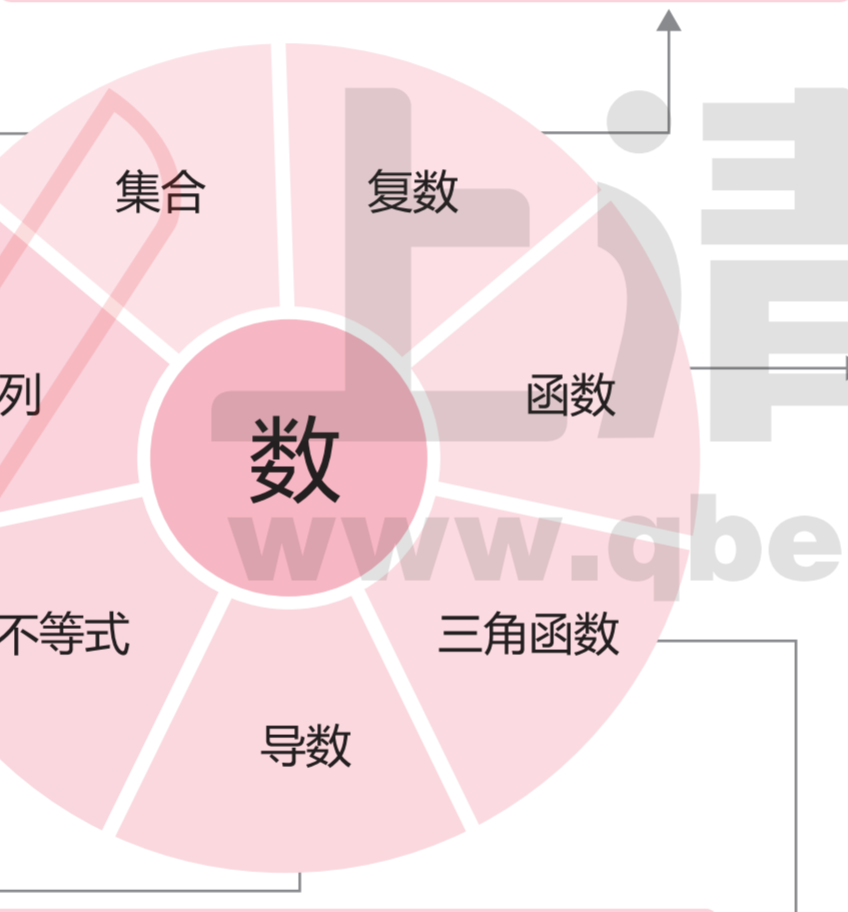


Table covering arithmetic and geometric sequences, including formulas for terms and sums.

三角函数

III 三角函数的图像与性质

Table showing graphs and properties of sine, cosine, and tangent functions.



I 角的概念的推广与弧度制

Text explaining the推广 of angle concepts and the use of radians.

II 任意角的三角函数定义

Text defining trigonometric functions for any angle.

IV 三角恒等变换

Table listing trigonometric identities for sums, differences, double angles, and power reduction.

V 解三角形

Table covering the Law of Sines, Law of Cosines, and area formulas for triangles.





I 直线方程

Table with 2 columns: 过定点 (x0, y0) 的直线方程, 平行于直线 Ax+By+C=0 的直线系方程, 垂直于直线 Ax+By+C=0 的直线系方程, 过两直线 A1x+B1y+C1=0 (i=1,2) 交点的直线系方程

II 两直线的位置关系

Table with 2 columns: 垂直的充要条件, 平行的充要条件, 重合的充要条件

I 圆的方程

Table with 2 columns: 圆的标准方程, 圆心和半径, 原点在圆心、半径为 r 的圆的方程, 圆的参数方程

III 直线方程

Table with 2 columns: 斜截式, 点斜式, 两点式, 截距式, 参数式, 一般式

IV 基本公式

Table with 2 columns: 两点间的距离, 线段的定比分点公式, 线段的中点坐标公式, 点到直线的距离, 两平行线间的距离

II 圆的一般方程 (x^2+y^2+Dx+Ey+F=0)

Table with 2 columns: D^2+E^2-4F > 0, D^2+E^2-4F = 0, D^2+E^2-4F < 0

III 直线 Ax+By+C=0 与圆 (x-x0)^2+(y-y0)^2=r^2 的位置关系

Table with 2 columns: 相交, 相切, 相离

I 计数原理

Table with 2 columns: 1.排列, 2.组合, 3.二项式定理, 二项式定理的应用, 二项展开式的通项, 二项式系数性质

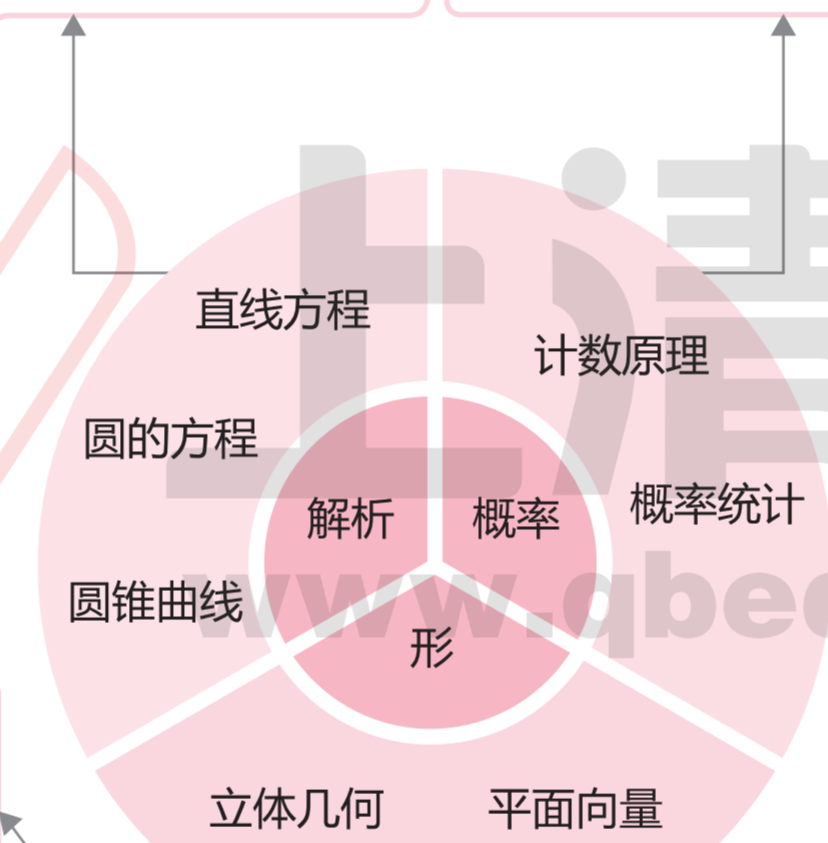
II 概率统计

Table with 2 columns: 1.不同事件的概率计算公式, 2.随机变量 xi 的概率分布, 3.随机变量 xi 服从二项分布



I 圆锥曲线

Table with 2 columns: 椭圆, 双曲线, 抛物线



I 立体几何

Table with 2 columns: 1.空间几何体的表面积与体积, 2.几何体的结构、三视图与直观图, 3.空间点、直线、平面之间的位置关系, 4.直线平面垂直的判定及性质, 5.直线、平面平行的判定及其性质

Table with 2 columns: 4.抽样方法, 5.用样本估计总体, 6.正态分布

Table with 2 columns: 7.正态总体取值概率, 8.标准正态分布, 9.总体特征数的估计

II 平面向量

Table with 2 columns: 1.平面向量的基本概念及线性运算, 2.平面向量的基本定理及其数量积, 3.平面向量的数量积

Table with 2 columns: 3.平面向量的数量积, 3.平面向量基本定理