

LINES - 直线 zhí xiàn

| | |
|---|---|
| line | 直线 zhí xiàn |
| point | 点 diǎn |
| ray (half-line) initial point | 射线 shè xiàn 端点 duān diǎn |
| line segment two endpoints | 线段 xiàn duàn 两个端点 liǎng gè duān diǎn |
| parallel lines | 平行线 píng xíng xiàn |
| intersecting lines point of intersection | 相交线 xiāng jiāo xiàn 交点 jiāo diǎn |
| perpendicular lines | 垂线 chuí xiàn |
| perpendicular foot of the perpendicular | 垂直 chuí zhí 垂足 chuí zú |
| perpendicular bisector midpoint | 中垂线 (垂直平分线) zhōng chuí xiàn (chuí zhí píng fēn xiàn) 中点 zhōng diǎn |
| half-plane | 半平面 bàn píng miàn |
| plane | 平面 píng miàn |
| vertical horizontal | 竖直 shù zhí 水平 shuǐ píng |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

CIRCLES - 圆 yuán

| | |
|------------|--------------|
| circle | 圆 yuán |
| center | 圆心 yuán xīn |
| radius | 半径 bàn jìng |
| diameter | 直径 zhí jìng |
| arc | 弧 hú |
| chord | 弦 xián |
| secant | 割线 gē xiàn |
| tangent | 切线 qiē xiàn |
| disc | 圆盘 yuán pán |
| sector | 扇形 shàn xíng |
| segment | 弓形 gōng xíng |
| semicircle | 半圆 bàn yuán |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

ANGLES - 角 jiǎo

| | |
|-----------------------------|-----------------------------|
| angle | 角 jiǎo |
| vertex | 顶点 dǐng diǎn |
| side | 边 biān |
| bisector | 角平分线 jiǎo píng fēn xiàn |
| acute angle | 锐角 ruì jiǎo |
| right angle | 直角 zhí jiǎo |
| obtuse angle | 钝角 dùn jiǎo |
| straight angle | 平角 píng jiǎo |
| convex angle | 劣角 liè jiǎo |
| reflex angle | 优角 (反角) yōu jiǎo (fǎn jiǎo) |
| zero angle | 零角 líng jiǎo |
| full angle (complete angle) | 周角 zhōu jiǎo |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

ANGLE PAIRS - 两角关系 liǎng jiǎo guān xi

| | |
|---------------------------|-------------------------|
| vertical angles | 对顶角 duì dǐng jiǎo |
| equal angles | 等角 děng jiǎo |
| complementary angles | 余角 yú jiǎo |
| supplementary angles | 补角 bǔ jiǎo |
| interior angles | 同旁内角 tóng páng nèi jiǎo |
| corresponding angles | 同位角 tóng wèi jiǎo |
| alternate interior angles | 内错角 nèi cuò jiǎo |
| alternate exterior angles | 外错角 wài cuò jiǎo |
| adjacent angles | 邻角 lín jiǎo |
| linear pair | 邻补角 lín bǔ jiǎo |
| interior angle | 内角 nèi jiǎo |
| exterior angle | 外角 wài jiǎo |
| inscribed angle | 圆周角 yuán zhōu jiǎo |
| central angle | 圆心角 yuán xīn jiǎo |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

TRIANGLES - 三角形 sān jiǎo xíng

| | |
|------------------------------|---|
| acute triangle | 锐角三角形 ruì jiǎo sān jiǎo xíng |
| right triangle | 直角三角形 zhí jiǎo sān jiǎo xíng |
| obtuse triangle | 钝角三角形 dùn jiǎo sān jiǎo xíng |
| height base | 高 gāo 底 dǐ |
| equilateral triangle | 等边三角形 děng biān sān jiǎo xíng |
| isosceles triangle | 等腰三角形 děng yāo sān jiǎo xíng |
| scalene triangle | 不等边三角形 bù děng biān sān jiǎo xíng |
| base leg | 底边 dǐ biān 腰 yāo |
| hypotenuse leg | 斜边 (弦) xié biān (xián) 直角边 (勾、股) zhí jiǎo biān (gōu, gǔ) |
| opposite leg adjacent leg | 对边 duì biān 邻边 lín biān |
| median | 中线 zhōng xiàn |
| perpendicular bisector | 中垂线 (垂直平分线) zhōng chuí xiàn (chuí zhí píng fēn xiàn) |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

QUADRILATERALS - 四边形 sì biān xíng

| | |
|-------------------------|-----------------------------------|
| square | 正方形 zhèng fāng xíng |
| rectangle | 长方形 cháng fāng xíng |
| rhombus | 菱形 líng xíng |
| parallelogram | 平行四边形 píng xíng sì biān xíng |
| kite | 筝形 zhēng xíng |
| dart | 飞镖形 fēi biāo xíng |
| antiparallelogram | 反平行四边形 fǎn píng xíng sì biān xíng |
| irregular quadrilateral | 不规则四边形 bù guī zé sì biān xíng |
| trapezoid | 梯形 tī xíng |
| two bases two legs | 上、下底边 shàng, xià dǐ biān 腰 yāo |
| isosceles trapezoid | 等腰梯形 děng yāo tī xíng |
| right-angled trapezoid | 直角梯形 zhí jiǎo tī xíng |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

POLYGONS - 多边形 duō biān xíng

| | |
|--|------------------------------------|
| convex polygon | 凸多边形 tū duō biān xíng |
| vertex (corner) | 顶点 dǐng diǎn |
| side | 边 biān |
| diagonal | 对角线 duì jiǎo xiàn |
| regular polygon | 正多边形 zhèng duō biān xíng |
| apothem | 边心距 biān xīn jù |
| concave polygon | 凹多边形 āo duō biān xíng |
| self-intersecting polygon | 自相交多边形 zì xiāng jiāo duō biān xíng |
| tangential polygon [for example the tangential quadrilateral] | 圆外切多边形 yuán wài qiē duō biān xíng |
| inscribed circle | 内切圆 nèi qiē yuán |
| cyclic polygon [for example the cyclic quadrilateral] | 圆内接多边形 yuán nèi jiē duō biān xíng |
| circumscribed circle | 外接圆 wài jiē yuán |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文

SOLID GEOMETRY - 立体几何 lì tǐ jǐ hé

| | |
|--|-------------------|
| cube | 正方体 zhèng fāng tǐ |
| cuboid (right rectangular prism) [rectangular faces, right] | 长方体 cháng fāng tǐ |
| prism [right, for example the hexagonal prism] | 棱柱 léng zhù |
| pyramid [for example the square pyramid] | 棱锥 léng zhuī |
| vertex (corner) | 顶点 dǐng diǎn |
| edge | 边 biān |
| face | 面 miàn |
| base | 底面 dǐ miàn |
| sphere | 球面 qiú miàn |
| cylinder | 圆柱 yuán zhù |
| cone | 圆锥 yuán zhuī |
| frustum (truncated cone) | 圆台 yuán tái |

GEOMETRY - 几何 jǐ hé

ENGLISH - 简体中文