

<<恒隆数学奖获奖论文集>>

图书基本信息

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内容概要

“恒隆数学奖”是著名数学家丘成桐教授与香港恒隆集团共同创办的香港地区最有影响力的中学数学奖。

本书集结了2005年该奖的9篇获奖论文，每篇论文都是一个数学专题，旨在以专题研习的形式训练学生的多元智能和创意思考能力，活学活用数学知识，摆脱传统死读书的学习模式，使学生从中取得考试外的满足感和喜悦感。

借以领略数学的美。

本书不仅可供中学生阅读，亦可供数学教师和数学爱好者阅读参考。

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书籍目录

MARKED RULER AS A TOOL FOR GEOMETRIC CONSTRUCTIONS--FROM ANGLE TRISECTION TO
N-SIDED POLYGONFURTHER INVESTIGATION ON BUFFON'S NEEDLE PROBLEMGHOST LEGTHE
PRODUCT OF CONSECUTIVE INTEGERS IS NEVER A SQUAREILLUMINATION
PROBLEMDECONSTRUCTING KAFKABEST POSITIONS FOR INSTALLING LIFTS IN A SHOPPING
MALLPERIMETER OF ELLIPSE AND GENERALIZATION IN N-DIMENSIONAL CASETHE
CONSTRUCTION OF SOUTH-WESTERN HONG KONG ISLAND LINE

章节摘录

插图：In this article, we have analysed the complicated relationship between Kafka and his father by a system of ordinary differential equations. We have found that our approach has been fairly reliable in predicting their relationship. We have also proved that communication between father and son would be crucial in developing good relationships. Also, in this special case of Kafka, we have found that his father's attitude also affects their relationship. Throughout his 41 years of life Franz spent most of the time with his beloved and though terrible father, and for nearly 25 years they had had a negative relationship according to our results. This intriguing real life story, interwoven with a son of diffidence and a father of tyranny, is doomed to be a tragedy. Their conflicts were, and are, going on forever. However, as we all know, all his works sprang out like a fountain which flows and influences the contemporaries and even the next generation, from the sole source of inspiration—his life with his father. It is ironic; it gives him fame and reputation after his death. Without his father, Franz Kafka could not become the Franz Kafka we know.

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