

A Key to Solving the Angle Trisection Problem

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Abstract

This paper describes the methodology (or approach) that was key to the solution of the angle trisection problem published earlier in article entitled, “*A Procedure For Trisecting An Acute Angle*.” It was an approach that required first, designing a working model of a trisector mechanism, second, studying the motion of key elements of the mechanism and third, applying the fundamental principles of kinematics to arrive at the desired results. In presenting these results, since there was no requirement to provide a detailed analysis of the final construction, this information was not included. However, now that the publication is out, it is considered appropriate as well as instructive to explain more fully the mechanism analysis of the trisector in graphical detail, as covered in Section 3 of this paper, that formed the basis of the long sought solution to the age-old *Angle Trisection Problem*.

Keywords

Archimedes’ Construction, College Geometry, College Mathematics, Angle Trisection, Trisector, Famous Problems in Mathematics, History of Mathematics, Mechanism Analysis, Kinematics, Geometer’s Sketch Pad

1. Introduction

This paper is a sequel to its forerunner entitled, “*A Procedure For Trisecting an Acute Angle*,” published earlier [1] where it presented a construction capable of dividing any arbitrary acute angle into three *exactly equal* parts using a straightedge and compass only [1] [2] [3] [4]. In presenting this construction, there was no need to describe the methodology for its development, since it was not required. However, given the fact that a) *The Angle Trisection* (one of the three unsolvable problems of Geometry, the other two being *the squaring of a circle* and *the doubling of a cube*), has been for centuries one of the most intriguing challenges for mathematicians, and b) nowhere else in the literature [2] [3] [4] [5] has the principles of kinematics [1] [6] [7] [8] been applied in tackling

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Table of Contents Trisection Problem

1. Understanding the eBook Trisection Problem
 - The Rise of Digital Reading Trisection Problem
 - Advantages of eBooks Over Traditional Books
2. Identifying Trisection Problem
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trisection Problem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trisection Problem
 - Personalized Recommendations
 - Trisection Problem User Reviews and Ratings
 - Trisection Problem and Bestseller Lists
5. Accessing Trisection Problem Free and Paid eBooks
 - Trisection Problem Public Domain eBooks
 - Trisection Problem eBook Subscription Services
 - Trisection Problem Budget-Friendly Options
6. Navigating Trisection Problem eBook Formats

- ePub, PDF, MOBI, and More
 - Trisection Problem Compatibility with Devices
 - Trisection Problem Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trisection Problem
 - Highlighting and Note-Taking Trisection Problem
 - Interactive Elements Trisection Problem
 8. Staying Engaged with Trisection Problem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trisection Problem
 9. Balancing eBooks and Physical Books Trisection Problem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trisection Problem
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Trisection Problem
 - Setting Reading Goals Trisection Problem
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Trisection Problem
 - Fact-Checking eBook Content of Trisection Problem
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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