

Applications of Systems of Equations (2017)

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Exercise 1 Suppose a square fence is made up of two straight sections of length x and two semicircular ends of diameter y .



- (a) Find the diameter and the area of $x = 20$ feet and $y = 20$ feet.
(a) $d = 20$ ft, $A = 1000$ ft²
- (b) Write an expression for finding the diameter y if you could find the diameter around the track for any given values of x and y .
(b) $y = 2x$
- (c) Find the area enclosed by the track if $x = 20$ feet and $y = 20$ feet.
(c) $A = 1000$ ft²
- (d) Write an expression for finding the diameter y if you could find the area of the track for any given values of x and y .
(d) $A = 1000$ ft²

- (e) On a rectangular track, an athlete would run 400 m in one lap. Assume the track that encloses about 4000 m² of space in the world for other swimming tracks. Based on your knowledge of the geometry of circles, write a system of equations that can be used to find the dimensions x and y of the track.

$$\begin{aligned} x + y &= 400 \\ \pi x^2 + \pi y^2 &= 4000 \end{aligned}$$

- (f) Solve the equations from the system above for y . Then solve the system by graphing x on the given variables. Describe your solution with a complete sentence.

Equation:



$$\begin{aligned} x + y &= 400 \\ \pi x^2 + \pi y^2 &= 4000 \end{aligned}$$

Solution:

The dimensions of the track are 20 m by 20 m. The area of the track is 400 m².

Geometry Systems Algebra 2 Hs Mathematics Unit

Lesson 01

CO Houle



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Table of Contents Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01

1. Understanding the eBook Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - The Rise of Digital Reading Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - 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 Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Personalized Recommendations
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 User Reviews and Ratings
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 and Bestseller Lists
5. Accessing Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Free and Paid eBooks
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Public Domain eBooks
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 eBook Subscription Services

- Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Budget-Friendly Options
- 6. Navigating Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Compatibility with Devices
 - Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Highlighting and Note-Taking Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Interactive Elements Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
- 8. Staying Engaged with Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
- 9. Balancing eBooks and Physical Books Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Setting Reading Goals Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - Fact-Checking eBook Content of Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01
 - 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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