

A satellite is orbiting a planet in a clockwise direction and completes one orbit every 8 seconds. Point S is on the outer edge of one of the satellite's solar panels and is located directly above the center of the planet at time $t = 0$ seconds, as indicated in the figure. Point S is 30 meters from the center of the planet. The center of the planet is 30 meters above the planetary surface. As the satellite orbits at a constant speed, the distance between S and the planet periodically decreases and increases.

The sinusoidal function h models the distance between S and the planet, in meters, as a function of time t , in seconds.

3. Part A:

The graph of h and its dashed midline for two full orbits is shown. Five points, X, Y, Z, W, and V, are marked on the graph. No scale is indicated, and no axes are presented. Determine possible coordinates $(t, h(t))$ for each of the points X, Y, Z, W, and V.



4. Part B:

The function h can be written in the form $h(t) = a \sin(bt + c) + d$. Find values of constants a , b , c , and d .

5. Part C:

Refer to the graph of h in Part (A). The t -coordinate of Y is t_1 , and the t -coordinate of Z is t_2 .

6. Part D: Which of the following is true about h ?

- A. h is positive and increasing.
- B. h is positive and decreasing.
- C. h is negative and increasing.
- D. h is negative and decreasing.

7. Describe how the rate of change of h is changing on the interval (t_1, t_2) .

Hs Mathematics Precalculus Unit 3 Lesson 3

Trigonometric Functions

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1. Understanding the eBook Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - The Rise of Digital Reading Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - 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 Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Personalized Recommendations
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions User Reviews and Ratings
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions and Bestseller Lists
5. Accessing Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions Free and Paid eBooks
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions Public Domain eBooks
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions eBook Subscription Services
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions Budget-Friendly Options

6. Navigating Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions eBook Formats
 - ePub, PDF, MOBI, and More
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions Compatibility with Devices
 - Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Highlighting and Note-Taking Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Interactive Elements Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
8. Staying Engaged with Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
9. Balancing eBooks and Physical Books Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Setting Reading Goals Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - Fact-Checking eBook Content of Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions
 - 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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